



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452	Dean Marriott, Director	Dan Saltzman, C	Commissioner
DATCH DISCHADGE	REQUEST FORM		

	DATCH DISC	HAROE REQUEST FORM	1
Waste Generator Information		Permit Contact Information	
Source Name		Name	Alan Sprott
Cascade General		Company Name	Cascade General
Source Address		Address	5555 N. Channel Ave
5555 N. Channel			Portland, OR 97217
Portland, Or 97217		Telephone Number	503/247-1672
,		Facsimile Number	503/247-6050
Batch Information	Marine	Email Address	asprott@casgen.com
Batch Number:		Proposed Discharge	500,000
		Volume:*	
Request Date/Time:	5/04/2007	Actual Discharge	
		Volume:	
Date Proposed:	5/04/2007	Sampling Location:	
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
Detail the Process(es) Ge	enerating Wastewater	& Wastewater Characterist	ics
Processed marine genera	ted wastewater		
Discharge flow will be s g pm. Are the analysis sheets, (develops. Flow will be he custody attached?	eld below 150 (ES or NO (circle one)
City Use Only		,	
Batch discharge approva	l: YES or NO	Date of Approval:	/ /2007
-	McDaniel	Bute of Approvuit.	, ,200,
Batch Discharge Denied	l Due to the Following	y.	
·			
supervision in acco evaluate the informa or those persons dir of my knowledge a	ordance with a system destation submitted. Based on ectly responsible for gathernd belief, true, accurate, a	nent and all attachments were program of the qualified program of the person or perering the information, the information of the possibility of fine and imprison	ersonnel properly gather and sons who manage the system, ation submitted is, to the best there are significant penalties
Signature:	· ·	Date:	-
MITALUIL.		Date.	



CITY OF PORTLAND INDUSTRIAL BATCH DISCHARGE REQUEST AND REPORT

INDUSTRY NAME:	Cascade General	For Industrial Source Control Division Use Only (Org Id 2159)						
PERMIT NUMBER:	437.003	Date Postmarked/Received	Date Entered					
ISCD APPROVAL BY:								
APPROVAL DATE:								
REPORT DUE DATE: <u>Prior To Discharge</u>			Entered By:					
BATCH DESCRIPTIOPN:	Non CWT - Marine Generated - Ballast Water Treatment Plant Effluent	Comments:						
DISCHARGE VOLUME:	500,000 gal							
DISCHARGE Start: DATES	Stop:							

SAMPLE DATE		POINT OF DISCHARGE							
4/30/2007		1A							
PARAMETER	ANALYTICAL METHOD	REPORTED CONCENTRATION	MDL	LIMITS	COMMENTS				
Copper (Total)	EPA 200.8	0.006	0.005	3.7 mg/L					
Lead (Total)	EPA 200.8	ND	0.005	0.7 mg/L					
Zinc (Total)	EPA 200.8	0.14	0.003	3.7 mg/L					
HEM Oil and Grease (Non-Polar)	EPA 1664	2.7	2.0	110 mg/L					
рН	EPA 150.1	9.85		5.0 - 11.5					

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	



CLIENT: Cascade General

ATTN: Bob Collinson

P.O. Box 4367

Portland OR, 97208

PHONE: (503) 247-1634

FAX: (503) 247-1680

PROJECT NAME: T-7 Marine

PROJECT NUMBER: 1-000-0001-100

SUBMITTED: 04/30/07 10:35

REPORT DATE: 05/03/07 14:55 **REPORT NUMBER: 7043002** **PAGE: 1 OF 5**

7043002-01			DATE 04/30	7/2007 TIME	MATRIX Water	_	
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME NOTES
7043002-01	SAMPLE ID: T-7-04	-30-07					
General Bench	n Analysis						
O & G, TOTAL (HEM)	EPA 1664	TOTAL OIL AND GREASE	2.7	mg/L	2.0	JRW	05/01/2007 10:52
PH	EPA 150.1/9040	рН	9.85	SU		DAU	04/30/2007 11:08
		TEMPERATURE (C)	14.8	SU			
SUSPENDED SOLIDS	EPA160.2/SM2540	TOTAL SUSPENDED SOLIDS	20.0	mg/L	5.00	DAU	05/03/2007 14:27
Total Metals by	Inductively Coupled	Plasma		<u> </u>			
COPPER - ICP	EPA 200.7/6010B	COPPER	0.006	mg/L	0.005	KEL	05/02/2007 10:52
LEAD - ICP		LEAD	ND	mg/L	0.005	KEL	05/02/2007 10:52
ZINC - ICP		ZINC	0.14	mg/L	0.003	KEL	05/02/2007 10:52

This report may not be reproduced except in full.

Authorized for Release By: Charles Morrow

Charles Morrow - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE:

05/03/07 14:55

REPORT NUMBER:7043002

PAGE: 2 OF 5

General Bench Analysis - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 7D27002 - Water Extrac	tion									
QC SAMPLE:	Blank (7D27002-BLK1)					Prepared 8	& Analyzed	I: 04/27/07			
TOTAL OIL AND	GREASE	ND	2.0	mg/L							
QC SAMPLE:	LCS (7D27002-BS1)					Prepared 8	& Analyzed	I: 04/27/07			
TOTAL OIL AND	GREASE	41.3	2.0	mg/L	43.0		96.0	79-114			
QC SAMPLE:	LCS Dup (7D27002-BSD1)					Prepared 8	& Analyzed	I: 04/27/07			
TOTAL OIL AND	GREASE	38.9	2.0	mg/L	43.0		90.5	79-114	5.99	18	
BATCH: Bato	ch 7D30009 - General Prep	aration									
QC SAMPLE:	Duplicate (7D30009-DUP1)			Source: 704	3001-01	Prepared 8	& Analyzed	I: 04/30/07			
рH		7.74		SU		7.72			0.259	10	
TEMPERATURE	(C)	17.8		"		17.7			0.563	200	
QC SAMPLE:	Reference (7D30009-SRM1)					Prepared 8	& Analyzec	1: 04/30/07			
рΗ		5.11		SU	5.00		102	97.5-102			
QC SAMPLE:	Reference (7D30009-SRM2)					Prepared 8	& Analyzed	1: 04/30/07			
рН		8.03		SU	8.00		100	97.5-102			
BATCH: Batc	ch 7E03003 - General Prep	aration									
QC SAMPLE:	Blank (7E03003-BLK1)					Prepared 8	& Analyzed	I: 05/03/07			
TOTAL SUSPEN	DED SOLIDS	ND	5.00	mg/L						,	
QC SAMPLE:	Duplicate (7E03003-DUP1)			Source: 7050	216-03	Prepared 8	& Analyzed	I: <u>05/03/07</u>			
TOTAL SUSPEN	DED SOLIDS	. ND	5.00	mg/L		ND				20	

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com

Authorized for Release By:Cr Charles Morrow



REPORT DATE:

05/03/07 14:55

REPORT NUMBER:7043002

PAGE: 3 OF 5

General	Bench	Analysis	- Quality	/ Control
---------	-------	-----------------	-----------	-----------

Batch/Sample/Analyte	Result	Detection Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7E03003 - General	Preparation									
QC SAMPLE: Reference (7E03003-S	SRM1)				Prepared	& Analyzed	1: 05/03/07	,		
TOTAL SUSPENDED SOLIDS	28.0	5.00	mg/L	27.6		101	80-120			

This report may not be reproduced except in full.

Authorized for Release By:Ct Charles Morrows



REPORT DATE: 05/03/07 14:55 REPORT NUMBER:7043002 PAGE: 4 OF 5

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7E02005 - ***Metals F	Prep***									
QC SAMPLE:	Blank (7E02005-BLK1)					Prepared 8	& Analyzed	: 05/02/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	H							
ZINC		, ND	0.003	0							
QC SAMPLE:	Calibration Blank (7E020	005-CCB1)				Prepared 8	& Analyzed	: 05/02/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	0						•	
ZINC		ND	0.003	11							
QC SAMPLE:	Calibration Blank (7E020	005-CCB2)				Prepared 8	& Analyzed	: 05/02/07			
COPPER		ND	0.004	mg/L							
ZINC		ND	0.003	· ·				•			
QC SAMPLE:	Calibration Blank (7E020	005-CCB3)				Prepared 8	& Analyzed	: 05/02/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	"							
ZINC		ND	0.003	"							
QC SAMPLE:	Matrix Spike (7E02005-M	IS1)		Source: 7043	3003-02	Prepared 8	& Analyzed	: 05/02/07			
COPPER		0.157	0.005	mg/L	0.111	0.064	83.8	80-120			
QC SAMPLE:	Matrix Spike Dup (7E020	05-MSD1)		Source: 7043	3003-02	Prepared 8	& Analyzed	: 05/02/07			
COPPER		0.166	0.005	mg/L	0.111	0.064	91.9	80-120	5.57	15	
QC SAMPLE:	Reference (7E02005-SRI	VI1)				Prepared 8	& Analyzed	05/02/07			
COPPER		1.00	0.004	mg/L	1.00		100	85-115			
LEAD		1.03	0.004	- "	1.00		103	85-115			
ZINC	•	1,11	0.003		1.00		111	85-115			

This report may not be reproduced except in full.

Authorized for Release By:Cr Charles Morrow



REPORT DATE:

05/03/07 14:55

REPORT NUMBER:7043002

PAGE: 5 OF 5

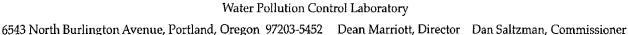
Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	:h 7E02005 - ***Metals Pre	o***									
QC SAMPLE:	Reference (7E02005-SRM2)					Prepared	& Analyzed	: 05/02/07			
COPPER		0.997	0.004	mg/L	1.00		99.7	85-115			
LEAD		1.02	0.004	u	1.00		102	85-115			
ZINC		1.07	0.003	п	1.00		107	85-115			
QC SAMPLE:	Reference (7E02005-SRM3)					Prepared	& Analyzed	: 05/02/07			
COPPER		1.01	0.004	mg/L	1.00		101	85-115			
LEAD		1.04	0.004	n	1.00		104	85-115			
ZINC		1.07	0.003	н	1.00		107	85-115			

This report may not be reproduced except in full.

Authorized for Release By:Ct Charles Morrow





	BATCH DISCHAR	GE REQUEST FORM	
Waste Generator Information		Permit Contact Information	
Source Name	Cascade General	Name	Charles Isted
		Company Name	Cascade General
Source Address	5555 N. Channel Ave. Portland, OR	Address	5555 N. Channel Ave
	97217		Portland, OR 97217
·		Telephone Number	503/247-1806
		Facsimile Number	503/247-6050

Batch Information Batch Number:

CWTA

Email Address

Proposed Discharge

Volume:*

Actual Discharge

Request Date/Time: 05/10/2008 11:30 a.m.

Volume:

Date Proposed: Duration of Discharge: 05/12/2008

Sampling Location:

T-, BWTP

60,000 gal

ljewell@vigorindustrial.net

Stop:5/23/08 Start:5/20/08 Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-A

Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Saturday, May 10, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'A' / 1-000-002-100

Enclosed are the results of analyses for samples received by the laboratory on 4/22/2008 at12:45:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

Project Number: 1-000-002-100

Reported:

5555 N. Channel Ave. Portland, OR 97217

Project Manager: Lian Jewell

05/10/08 14:21

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMAT	TION	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-17-04-22-08 Sub CAT 'A'	A804224-01	Water	04/22/08 10:00	04/22/08 12:45
Sub Cat 'A' 5/8/8	A804224-02	Water	05/08/08 00:00	04/22/08 12:45

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave.

Project Number: 1-000-002-100

Reported:

Portland, OR 97217

Project Manager: Lian Jewell

05/10/08 14:21

ANALYTICAL SAMPLE RESULTS

		Purgeal	ble Organi	Compounds by	EPA 624			
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-17-04-22-08 Sub CAT 'A' (A80	4224-01)		Matrix: W	ater				R-01
Acrylonitrile	ND		0.0100	mg/L	10	04/30/08 13:02	EPA 624	•
Chlorobenzene	ND		0.00500	ħ	н	и	u	
Chloroform	0.0112		0.0100	to	n	ti	'n	
1,2-Dichloroethane (EDC)	ND		0.00500	W.	n	n	ţı	
Trichloroethene (TCE)	ND		0.00500	i†	19	v	**	
Surrogate: Dibromofluoromethe	ane (Surr)	Reco	very: 102 %	Limits: 80-120 %	1			**************************************
1,4-Difluorobenzene	(Surr)		102 %	Limits: 80-120 %	47	It .	n	
Toluene-d8 (Surr)			94 %	Limits: 80-120 %	"	II .		
4-Bromofluorobenze	ne (Surr)		99 %	Limits: 80-120 %	H	н	17	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

ANALYTICAL SAMPLE RESULTS

	Semivolatil	e Organic	Compoun	ds by EPA 625 M	odified (S	SIM Analysis)		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
Sub Cat 'A' 5/8/8 (A804224-02)			Matrix: W	ater				R-04
Bis(2-ethylhexyl)phthalate	ND		0,117	mg/L	100	05/09/08 16:21	EPA 625 SIM	
Carbazole	ND		0.00935	0	11	0	0	
2,4-Dinitrotoluene	ND		0.00935	ir		D.	TT .	
Decane	ND		0.0561	11	n	If .	и	R-02
Fluoranthene	ND		0.00935	n	н	n	N	
Nitrobenzene	ND		0.00935	n	**	N	. "	
Octadecane	ND		0.0467	U	**	19	g	
Pentachlorophenoi (PCP)	ND		0.0234	"	ır	t)	m .	
Surrogate: Nitrobenzene-d5 (Sur	7)	Rec	overy: 90 %	Limits: 35-120 %	"	17	17	
2,4-Dibromophenol (Surr)		19 %	Limits: 30-125 %	н	ч	II.	S-0:
2-Fluorobiphenyl (Su	rr)		108 %	Limits: 45-120 %	н	4	i†	
p-Terphenyl-d14 (Sw	r)		184 %	Limits: 30-120 %	n	я	и	S-02

Apex Laboratories

Daum/ Jum

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-17-04-22-08 Sub CAT 'A' (A804224-01)		Matrix: Water	•									
Arsenic	0.00138		0.00100	mg/L	1	04/28/08 16:14	EPA 200.8						
Cadmium	ND		0.00100	4	IJ	v	ti						
Chromium	ND ·		0.00100	n	u	17	n						
Cobalt	ND		0.00200	n		H	n						
Copper	0.0696	. 	0.00500	•	tr	н	11						
Lead	0.00188		0.00100	4	7	n	tf.						
Molybdenum	0.00531		0.00200	4		n	11						
Nickel	0.00793		0.00100		•	04/29/08 13:43	и						
Selenium	0.00261		0.00100	и	n	04/28/08 16:14	и						
Silver	ND		0.00200	**	II.	н	"						
Zinc	0.195		0.00500	U	17	W	9						
Vanadium	ND		0.00200	¥?	n	*	9						
T-17-04-22-08 Sub CAT 'A' (.	A804224-01RE1)		Matrix: Water										
Antimony	ND		0.00100	mg/L	1	05/01/08 14:41	EPA 200.8	Q-25					

Apex Laboratories

Dawn/ June

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-002-100

Reported: 05/10/08 14:21

Project Manager: Lian Jewell

ANALYTICAL SAMPLE RESULTS

	Conventional Chemistry Parameters													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes						
T-17-04-22-08 Sub CAT 'A' (A804	1224-01)		Matrix: Wate	r										
HEM (Hexane Extracted Material)	7.57		4.85	mg/L	1	04/24/08 14:07	EPA 1664							
SGT-HEM (Silica gel treated HEM)	ND		4.85	IT	n .	04/25/08 12:51	EPA 1664-\$GT							

Apex Laboratories

استنقل السيبه (ال

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	c Compou	nds by EF	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REG	%REC Limits	RPD	RPD Limit	Notes
Batch 8040339 - EPA 5030B							War	ter				
Blank (8040339-BLK1)						Analyzed:	04/30/08 11	:56				
EPA 624			,									
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	п	**					***		
Chloroform	ND		0.00100	11	. "							
I,2-Dichloroethane (EDC)	ND		0.000500	71	tr .		***			<u>:</u>		
Trichloroethene (TCE)	ND		0.000500	n	ir		•-•					
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dia	lution: 1x					
I,4-Difluorobenzene (Surr)			101 %		80-120 %		"					
Toluene-d8 (Surr)			97 %		80-120 %		n					
4-Bromofluorobenzene (Surr)			103 %		80-120 %							
LCS (8040339-BS1)						Analyzed:	04/30/08 10	:48				
EPA 624												
Acrylonitrile	0.0282		0.00100	mg/L	1				50-200%			Q-08
Chlorobenzene	0.0210		0.000500	"	17			105	70-130%			
Chloroform	0.0206		0.00100	u	15	l†		103	11			
1,2-Dichloroethane (EDC)	0.0205		0.000500	9	14	11		102	19			
Trichloroethene (TCE)	0.0218		0.000500	11	н	17	•	109	"			
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dil	ution: lx					
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"					
Toluene-d8 (Surr)			95 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			96 %		80-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatil	e Organic C	ompoun	ds by EPA	4 625 Modi	ified (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050093 - EPA 3510C							Wa	ter				
Blank (8050093-BLK1)						Analyzed:	05/09/08 15	5:11				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1							B-02
Carbazole	ND		0.000100	71	11							
2,4-Dinitrotoluene	ND		001000.0	u	11							
Decane	ND		0.000500	n	"							
Fluoranthene	ND		0.000100		"							
Nitrobenzene	ND		0.000100	н	u							
Octadecane	ND		0.000500	"	"							
Pentachlorophenol (PCP)	ND		0.000250	13	71							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 93 %	Limits:	35-120 %	Dil	ution: lx				·	
2,4-Dibromophenol (Surr)			78 %		30-125 %	- "	"					
2-Fluorobiphenyl (Surr)			87 %		45-120 %		"				•	
p-Terphenyl-d14 (Surr)			90 %		30-120 %		"					
LCS (8050093-BS1)						Analyzed:	05/00/09 15	: 24				
EPA 625 SIM						Analyzeu	03/07/00 13					· · · · · · · · · · · · · · · · · · ·
Bis(2-ethylhexyl)phthalate	0.00521		0.00125	mg/L	1	0.00500		104	40-125%			
Carbazole	0.00485		0.000100	"	Ir	n		97	N 12370			
2,4-Dinitrotoluene	0.00403		0.000100			*		104	"			
Decane	0.00462		0.000100	"		"		92				
Fluoranthene	0.00402		0.000300		"			88	55-120%			
Nitrobenzene	0.00442		0.000100	**	v	er		108	40-125%			
			0.000100	er .	U			91	40-12370			
Octadecane	0.00454			я	ır			98	40 1200/			
Pentachlorophenol (PCP)	0.00492		0.000250					98	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 107%	Limits:	35-120 %	Dili	ution: Ix					
2,4-Dibromophenol (Surr)			86 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			103 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			99 %		30-120 %		"					
LCS Dup (8050093-BSD1)						Analyzed: (05/09/08 15	:57		201 600000000000000000000000000000000000		
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00496		0.00125	mg/L	1	0.00500		99	40-125%	5	30%	
Carbazole	0.00525		0.000100	n	n	n		105	**	8	30%	
	0.00540		0.000100			0			11		2004	
2,4-Dinitrotoluene	0.00540		0.000100	,,	"	.,		108	"	4	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 8 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	Organic Co	ompoun	ds by EPA	625 Modi	fied (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050093 - EPA 3510C							Wat	ter				
LCS Dup (8050093-BSD1)						Analyzed:	05/09/08 15	:57				
Fluoranthene	.0.00471		0.000100	mg/L	er er			94	55-120%	6	30%	
Nitrobenzene	0.00573		0.000100	v	n	N		115	40-125%	5	30%	
Octadecane	0.00487		0.000500	o	н	n		97	19	7	30%	
Pentachlorophenol (PCP)	0.00509		0,000250	ar .	n	11		102	40-120%	3	30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 113 %	Limits:	35-120 %	Dil	ution: 1x					
2,4-Dibromophenol (Surr)			90 %		30-125 %		**					
2-Fluorobiphenyl (Surr)			109 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			103 %		30-120 %		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	<u>s)</u>					
Analyte	Result	MDL	Reporting Limit	Units	Dîl.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040319 - EPA 3015							Wat	ter				
Blank (8040319-BLK1)						Analyzed:	04/29/08 13	:40				
EPA 200.8												
Antimony	ND		0.00100	mg/L	ŧ							RE-1
Arsenic	ND		0.00100	ti .	19							
Cadmium	ND		0.00100	и	w							
Chromium	ND		0.00100	(i	lt .							
Cobalt	ND		0.00200	*11								
Copper	ND		0.00500	er e	11							
Lead	ND		0.00100	91	71							
Molybdenum	ND		0.00200	u	\$1							
Nickel	ND		0.00100	*1	er						***	
Selenium	ND		0.00100	*11	н							B-02
Silver	ND		0.00200	er	**							
Zinc	ND		0.00500		**	***						
Vanadium	ND		0.00200	и								
LCS (8040319-BS1)						Analyzed: (04/28/08 15	:51				
EPA 200.8												
Arsenic	0.109		0.00100	mg/L	1	0.111		98	85-115%			
Cadmium	0.109		0.00100	п	10	"		98	**			
Chromium	0.114		0.00100	19	I#	и		102				
Cobalt	0.113		0.00200		н	н		101	n			
Copper	0.113		0.00500	HT.	и	**	***	101	н			
Lead	0.111		0.00100	H	"1	o		100	н			
Molybdenum	0.117		0.00200	и	a	If		106	н			
Nickel	0.114		0.00100	и	"	н		103	**			
Selenium	0.0513		0,00100	W	и	0.0555		92	10			
Zinc	0.109		0,00500		и	0.111		98	17			
Vanadium	0.123		0,00200		,,	"		111	ır			
			-,			Analyzed: (04/28/08 16:					
EPA 200.8												
Silver	0.0546		0.00400	ıt	2	0.0555		98	17			
Duplicate (8040319-DUP1)			Source: A	804224-01		Analyzed: 0)4/28/08 16:	:18				
EPA 200.8												
Arsenic	0.00127		0.00100	mg/L	1		0.00138			8	20%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 10 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)													
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 8040319 - EPA 3015							Wat	er					
Duplicate (8040319-DUP1)			Source: A	804224-01		Analyzed:	04/28/08 16	:18					
Cadmium	ND		0.00100	mg/L	17		ND				20%	Q-05	
Chromium	ND		00100.0	11	п		ND				20%		
Cobalt	ND	_	0.00200	ur .	•		ND				20%		
Copper	0.0681		0.00500	•	п		0.0696			2	20%		
Lead	0.00187		0.00100	a	"		0.00188			0.6	20%		
Molybdenum	0.00481		0.00200	tt	"		0.00531			10	20%		
Selenium	0.00248		0.00100	•	и		0.00261			5	20%		
Silver	ND		0.00200	H			ND				20%		
Zinc	0.192		0.00500		11		0.195			2	20%		
Vanadium	ND		0.00200	TI	17		ND				20%		
						Analyzed:	04/29/08 13	:46					
EPA 200.8													
Nickel	0.00807		0.00100	n	n		0.00793			2	20%		

Apex Laboratories

Darme John

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100

Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	i)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040332 - EPA 3015							Wat	ter				
Blank (8040332-BLK1)						Analyzed:	05/01/08 11	:31				
EPA 200.8 Antimony	ND		0.00100	mg/L	1		***					B-02
LCS (8040332-BS1)						Analyzed:	05/01/08 11	:34				
EPA 200.8									-			
Antimony	0.0542		00100,0	mg/L	1	0.0556		98	85-115%			Q-23

Apex Laboratories

Vien-

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: I-000-002-100

Project Manager: Lian Jewell

Reported: 05/10/08 14:21

QUALITY CONTROL (QC) SAMPLE RESULTS

					/ Paramete						
Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		·				Wat	ter				
					Analyzed:	04/24/08 14	1:07				
ND		5.00	mg/L	1							
					Analyzed: (04/25/08 12	::51				
ND		5.00	mg/L	i							
					Analyzed: (04/24/08 14	:07				
38.8			mg/L	1	40.0		97	78-114%			
					Analyzed: (04/25/08 12	:51				
			•								
17.8	464		mg/L	1	20.0		89	64-132%			
	ND ND	ND	ND 5.00 ND 5.00	ND 5.00 mg/L ND 5.00 mg/L	ND 5.00 mg/L 1 ND 5.00 mg/L 1	ND 5.00 mg/L 1 Analyzed: (ND 5.00 mg/L 1 Analyzed: (ND 5.00 mg/L 1 Analyzed: (Analyzed: (Result MDL Limit Units Dil. Amount Result	Result MDL Limit Units Dil. Amount Result %REC	ND 5.00 mg/L 1 Analyzed: 04/24/08 14:07 ND 5.00 mg/L 1 ND 5.00 mg/L 1 ND 5.00 mg/L 1 Analyzed: 04/25/08 12:51 ND 5.00 mg/L 1 40.0 97 78-114% Analyzed: 04/25/08 12:51	Result MDL Limit Units Dil. Amount Result %REC Limits RPD	ND 5.00 mg/L 1 Analyzed: 04/24/08 14:07 ND 5.00 mg/L 1 Analyzed: 04/24/08 14:07 ND 5.00 mg/L 1 Analyzed: 04/24/08 14:07 ND 5.00 mg/L 1 40.0 97 78-114% Analyzed: 04/25/08 12:51

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100 Project Manager: Lian Jewell

Reported: 05/10/08 14:21

SAMPLE PREPARATION INFORMATION

Apex Laboratories

Purgeable Organic Compounds by EPA 624 Sample Initial/Final Initial/Final Factor												
Lab Number	Matrix	Method	Sampled	Prepared	•		•					
EPA 5030B												
	Water	EPA 624	04/22/08 10:00	04/30/08 09:46	5mL/5mL	5mL/5mL	1.00					
·		Semivolatile Or	ganic Compounds b	y EPA 625 Modified (S	IM Analysis)							
	Matrix	Method	Sampled	Prepared	-		•					
	Water	EPA 625 SIM	05/08/08 00:00	05/09/08 10:46	1070mL/5mL	1000mL/5mL	0.94					
			Total Metals by EF	A 200.8 (ICPMS)								
	Matrix	Method	Sampled	Prepared	•		•					
A804224-01	Water	EPA 200.8	04/22/08 10:00	04/28/08 09:59	45mL/50mL	45mL/50mL	1.00					
	Water	EPA 200.8	04/22/08 10:00	04/29/08 12:03	45mL/50mL	45mL/50mL	1.00					
			Conventional Chem	nistry Parameters								
					Sample	Default	RL Prep					
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
EPA 1664												
Batch: 8040264												
A804224-01 A804224-01	Water Water	EPA 1664 EPA 1664-SGT	04/22/08 10:00 04/22/08 10:00	04/23/08 10:53 04/23/08 10:53	IN/A/IN/A IN/A/IN/A	1N/A/1mL 1N/A/1mL	NA NA					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 14 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC
Project: Sub Cat 'A'

5555 N. Channel Ave.
Project Number: 1-000-002-100
Project Manager: Lian Jewell
05/10/08 14:21

Notes and Definitions

O:	ıal	ifi	ers	٠
UЛ	na.		C15	

A-01	QC sample spiked at high point of calibration curve for decane. 105%R means above calibration curve, samples ND, data accepted.
B-02	Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.
Q-05	Analyses are not controlled on RPD values from sample or duplicate concentrations near or below the reporting level.
Q-08	Recovery of Lab Control Spike or Matrix Spike was above established control limits for this analyte. Analyte was not detected, therefore data quality is not affected.
Q-23	Recovery of Continuing Calibration Verification sample above upper control limit. Data is likely biased high.
Q-25	Recovery of Continuing Calibration Verification standard was above acceptable limits. Sample was Non-Detect, so Data Quality is not affected.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to dilution necessary for analysis.
RE-1	LCS Recovery of this analyte fell outside of control limits. Batch will be redigested for this analyte.
S-05	Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix interference.

Notes and Conventions:

DET	Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

MDL

Batch QC

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-002-100

Project Manager: Lian Jewell

Reported: 05/10/08 14:21

APEX LABS			-		U	Ħ	Ţ	. O	Ě	5	SI	CHAIN OF CUSTODY	~					3	لتسلخ	8	100 P	\aleph	٠,٦		נו	ا ا	,	
1282 S.W. Gardov Place, Tygord, OR: 97113 Ph. 508-718-1919 Race 508-713-0333	11.97E	P. S.	03-718	4 5565	30c: 50	17.1	1-033	~		·								٠.	-	,				_				
COMPANY (AS CADIE GENERAL	7		Project Mex.	ij							equi,	Piolosi Mene:	Ŋ	Sub Cat	2		4	_	广	Project	Project 1-000 -000	ģ	0	å	8	3	(Color	
MARCHE SSSS N CLLUNG	√		7.24 7.44		Š			ΝĒ	Sign	0.0	- 5			5 43/ EVE	188	75		Email	1									_
Sunyled by:					ALAES					M						쮏		33										e e
SAARPEE	r Gi EV T	atvo	LINE	XISTAM	A OF CONTABLES	MALAIFOZ MALAIFEDZ	waleip@#	PLEX	STOP INCIDES A COLO	3501 Hole 1/0Cs	\$300 A 9918	BEST BEST BILG SEST BYES	ates Chler, Pest.	क्षि संगम्प प्राटम्स	Princing Chands (13)	אן באן ונהן ציין עה כל באן בה כה כה כה אין רא	A Str. All and All	ICEL Honp (p)	5103 407.1	1'SAT 13	1154 T 443	WIS 587 743	HA PARIYAS	1.271 FAS	257000 120 A271 kds	21/5/88 NA GORP (MS (4)-5 82-22-55) (4)-5 82-22-55)	0287 MS	בנסת שניושה לים
7-17.04.22-08	, ži	2, 2 <u>4</u>	12:00 Eth	ž	-	1-	_			-	1-	-	-		L		ď.		1	X		К	K	12	K	ŧŻ	₹X	χ
Sab Cet'A'				 	H	<u> </u>	1		Γ	1-	\vdash	 	-	_	1		Γ	L	1	-	}	}) _	4	1	<u> </u>	Ļ	,
			T	\vdash	-	<u> </u>	1	L.	1	1	-	1	+	1	<u> </u>	L		L	1	1	1	╁	-	╀	1	\bot	╀	
			-	-			<u> </u>			 -	\vdash	\vdash	-	_		_				-	\vdash	╀	-	\vdash	1	ـ	1	-
			-	-	-	-	<u> </u>		1	}	1	-	-	_		_			1	-	\vdash	╁	-	╀	-	-	1	
					-	-	_		Γ	 	-	\vdash	-		<u> </u>	L				-	+-	\vdash	ļ.,	╀	╀	╀-	┞	-
						-	_			-	-		\vdash		<u> </u>					 	-	-		╀	┞	-	-	
						<u> </u>	_	L	ļ _	1	 -	1	 	ļ	1	1		1	1	╁	-		-	┞-	╀	-	-	1
						<u> </u>	<u> </u>			<u> </u>		\vdash	├-	ļ	_	L		Ĺ	İ	+	+-	╀	╀	-	1	ļ .	Ļ	ŧ
					-	-	<u> </u>			-	-		-	-		L			È	-	-	\vdash	├-	-	\vdash	╀	<u> </u>	_
Mercul Tuck Afored Time (TAT) = \$10 filediness Days	Arriga	Time	74(1)	30 90	ICLS Di	×.			П	SPEC	N.	SPECIAL INSTRUCTIONS	5	8]] .	1		1	1	-	-	-	-	1	,
TAT Requested (circle)	24 HR 4 DAY	A N	48 HR 5 Day	t o	71.HR Other: (0 leasy 2	9	3	7																				
SAMPLES AREHELD FOR 30 DAYS	ES ARG	TELD?	OR 30	23.05					Γ																		٠	
	Daw 4,	£ 2.2	Dar 4/, 2.2.08 ROLLING	RECEIVED BY	7	16	,,	٠,		HELLI Spensor	3 E	HELINQUATURD P.T. Espenie:	æ		1	ă	Dake				# # #	PECETYRIP IIV: Stanton	130 E		ŀ			
Bob allussin	Three	5421		Cam Minter	ž ž	10	12	1/2	**********	7	Dived Nave					¥	Tiene:		-		۴	Thred Xazz	32.5					ŧ
Security			٥	1 T	\$	1				Coorpos	i,			7						ŀ	a	Computer						1
						ĺ	-					deritte program,	-	Ī		Non-rock.	į	-					١	l			١	7

Apex	Labora	Mortes



APEX Laboratories

Certificate of Analysis Number:

08041382

Report To:

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR

97223-

ph: (503) 718-2323

fax:

Project Name: Site: A804224 Tigard, OR

. . . .

Site Address:

PO Number:

State:

Oregon

State Cert. No.: Date Reported: TX200001 5/1/08

This Report Contains A Total Of 12 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Case Narrative for: APEX Laboratories

Certificate of Analysis Number:

08041382

Report To: **Project Name:** A804224 Site: Tigard, OR **APEX Laboratories Darwin Thomas** Site Address: 12232 SW Garden Place PO Number: **Portland** Oregon State: OR 97223-State Cert. No.: TX200001 ph: (503) 718-2323 fax: 5/1/08 Date Reported:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Sample ID "T-17-04-22-08 SUB CAT 'A"" (SPL ID: 08041382-01) was received expired for pH analysis. The holding time for pH is immediate and should be performed at the time of sampling. Client is aware of the holding time and requested SPL to perform the analysis.

Your sample ID "T-17-04-22-08 SUB CAT 'A'" (SPL ID: 08041382-01) was analyzed for Chlordane by EPA method 608. The surrogates were below the quality control limits due to matrix interference. The sample was re-extracted and re-analyzed with confirming results,

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID:77995 for the Pesticide Polynuclear Aromatic Hydrocarbons analysis by EPA Method E608. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08041382 Page 1

5/5/08 Date

Bethany A. Agarwal

Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.



APEX Laboratories

Certificate of Analysis Number:

08041382

Report To:

Fax To:

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR 97223-

ph: (503) 718-2323

fax: (503) 718-0333

Project Name:

Site:

A804224

Tigard, OR

Site Address:

PO Number:

State:

Oregon TX200001

State Cert. No.: Date Reported:

5/1/08

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COCID	HOLD
T-17-04-22-08 SUB CAT 'A'	08041382-01	Water	4/22/08 10:00:00 AM	4/23/08 10:00:00 AM		

Bethany A. Agarwal Senior Project Manager

5/5/08

Date

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08041382 Page 2 5/5/08 4:50:18 PM



Client Sample ID: T-	17-04-22-08 SUB CAT	'A'	Collect	ed:	04/22/200	08 10:00	SPL San	ıple iI	D : 0804	1382-01
			Site:	Tig	jard, OR					
Analyses/Method	Resul	t QUAL	Rep.L	imit		Dil. Factor	Date Anal	yzed	Analyst	Seq.#
CYANIDE, TOTAL					MCL		E335.2	Un	its: mg/L	
Cyanide	ND		0.	005		1	04/28/08	16:00	ESK	440263
Prep Method	Prep Date	Prep Initials	Prep Fac	tor						
E335.2	04/28/2008 10:00	E\$K	1.00							
MERCURY, TOTAL					MCL		E245.1	Uni	its: mg/L	
Mercury	ND		0.0	002		1	04/29/08	16:08	CMC	4405666
Prep Method	Prep Date	Prep Initials	Prep Fac	tor						
E245.1	04/29/2008 11:00	CMC	1.00							
METALS BY METHO	D 200.7. TOTAL				MCL		E200.7	Uni	its: mg/L	
Tin	ND	_		.05		1	04/28/08		EG	4405050
Titanium	ND		C	0.02		1	04/28/08	22:44	EG	4405050
Prep Method	Prep Date	Prep Initials	Prep Fac	tor						
E200.7/200.8	04/25/2008 13:05	DDW	1.00							
PESTICIDE/PCBS BY	METHOD 608				MCL		E608	Uni	ts: mg/L	
Chlordane	ND		0	.03		1	04/28/08	13:09	CLJ	4404890
Surr: Decachlorobiph	enyl 15 MI	*	% 35-	124		1	04/28/08	13:09	CLJ	4404890
Surr: Tetrachloro-m-x	ylene 45 MI	*	% 48-	120		1	04/28/08	13:09	CLJ	4404890
Prep Method	Prep Date	Prep Initials	Prep Fact	or						
E608	04/24/2008 7:55	N_M	1.00							
PH					MCL	SM45	600-Н В	Uni	ts: pH Un	its
pН	10			0.1		1	04/23/08	11:15	PAC	4394564
Temperature (oC)	22.2			0.1		11	04/23/08	1:15	PAC	4394564
SULFIDE, TOTAL					MCL		E376.2	Uni	ts: mg/L	
Sulfide	ND		0	.25		5	04/25/08	1:45	A_E	4399621

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08041382 Page 3 5/5/08 4:50:41 PM

Quality Control Documentation



APEX Laboratories A804224

Analysis:

Pesticide/PCBs by Method 608

Method:

E608

WorkOrder:

08041382

Lab Batch ID:

77995

Method Blank

Units:

RunID: VARG_080428A-4404891

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

04/28/2008 14:28

Analyst: CLJ 08041382-01A

T-17-04-22-08 SUB CAT 'A'

Preparation Date:

04/24/2008 7:55

Prep By: N_M Method E608

Analyte Result Rep Limit Chlordane ND 0.030 Surr: Decachlorobiphenyl 35-124 Surr: Tetrachloro-m-xylene

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

VARG_080428A-4404892

Units: mg/L

Analysis Date:

04/28/2008 15:07

Analyst: CLJ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chlordane	0.00500	0.00506	101	0.00500	0.00489	97.9	3.3	20	45	119
Surr. Decachlorobiphenyl	1.00	0.880	88.0	1.00	0.843	84.3	4.3	30	35	124
Surr: Tetrachloro-m-xylene	1.00	0.820	82.0	1.00	0.771	77.1	6.2	30	48	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 5

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:49 PM



APEX Laboratories A804224

Analysis:

Metals by Method 200.7, Total

Method:

RunID:

E200.7

WorkOrder:

08041382

Samples in Analytical Batch:

Lab Batch ID:

78095

Method Blank

TJA_080428A-4405037

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

04/28/2008 22:00

EG Analyst:

08041382-01D

T-17-04-22-08 SUB CAT 'A'

Preparation Date:

04/25/2008 13:05

DD Prep By:

Method E200.7/200.8

	Analyte	Result	Rep Limit
İ	Tin	ND	0.05
	Titonium	ND	0.02

Laboratory Control Sample (LCS)

RunID:

TJA_080428A-4405039

Units:

mg/L EG

Analysis Date: Preparation Date:

04/28/2008 22:05 04/25/2008 13:05

Analyst: Prep By:

Method E200.7/200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Tin	1.000	1.066	106.6	85	115
Titanium	1.000	1.004	100.4	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041342-01

RunID:

TJA 080428A-4405042

Units:

mg/L

Analysis Date:

04/28/2008 22:14

Analyst: EG

Preparation Date: 04/25/2008 13:05 Prep By: DD Method E200.7/200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Tin	ND	1	1.029	102.9	1	1.060	106.0	3.005	20	70	130
Titanium	ND	1	0.9706	97.06	1	0.9987	99.87	2.856	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 6

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:50 PM



APEX Laboratories A804224

Analysis:

Mercury, Total

Method:

E245.1

WorkOrder:

08041382

Lab Batch ID:

78246

Method Blank

RunID: HGLC_080429A-4405664

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

CMC

08041382-01D

Preparation Date:

04/29/2008 16:01 04/29/2008 11:00 Analyst: Prep By:

CMC Method E245.1

T-17-04-22-08 SUB CAT 'A'

Analyte Result Rep Limit ND 0.0002

Laboratory Control Sample (LCS)

RuniD:

HGLC_080429A-4405665

Units:

mg/L

04/29/2008 16:04 Analysis Date: Preparation Date: 04/29/2008 11:00

CMC Analyst:

Prep By: CMC Method E245.1

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001994	99.72	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041489-01

RunID:

HGLC 080429A-4405668

Units:

mg/L

Analysis Date:

04/29/2008 16:12

Analyst: CMC

Preparation Date:

04/29/2008 11:00

CMC Method E245.1 Prep By:

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit		High Limit
Mercury	ND	0.002	0.001965	98.25	0.002	0.001948	97.41	0.8619	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

BN - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 7

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:50 PM



APEX Laboratories A804224

Analysis:

Cyanide, Total

Method:

E335.2

WorkOrder:

08041382

Lab Batch ID:

78182

Method Blank

Run!D:

WET_080428X-4402630

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

04/28/2008 16:00

Analyst:

ESK

08041382-01B

T-17-04-22-08 SUB CAT 'A'

Preparation Date:

04/28/2008 10:00

Prep By:

ESK Method E335.2

Analyte	Result	Rep Limit
Cyanide	_ ND	0.0050

Laboratory Control Sample (LCS)

RunID:

WET_080428X-4402631

Units:

mg/L

Analysis Date: Preparation Date:

04/28/2008 16:00 04/28/2008 10:00 Analyst: **ESK**

Prep By: ESK Method E335.2

	Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
0	Cyanide	0.2000	0.2083	104.1	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041243-02

RunID:

WET_080428X-4402635

Units:

mg/L

Analysis Date: Preparation Date: 04/28/2008 16:00 04/28/2008 10:00

Analyst: ESK Prep By:

Method E335.2

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Cyanide	ND	0.2	0.2093	103.6	0.2	0.2112	104.6	0.9323	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 8

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:51 PM



APEX Laboratories A804224

Analysis:

pН

Method:

SM4500-H B

WorkOrder:

08041382

Lab Batch ID:

R235006

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

08041382-01A

T-17-04-22-08 SUB CAT 'A'

Laboratory Control Sample (LCS)

RuniD:

WET_080423V-4394563

Units:

pH Units

Analysis Date: 04/23/2008 11:15 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
На	7.000	7.050	100.7	98	102

Sample Duplicate

Original Sample:

08041382-01

WET_080423V-4394564

Units:

pH Units

Analysis Date:

RunID:

04/23/2008 11:15

Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	10	10.02	0.0999	5
Temperature (oC)	22.2	22.2	0	5

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

BN - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 9

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:51 PM



APEX Laboratories A804224

Analysis:

Sulfide, Total

Method:

E376.2

WorkOrder:

08041382

Lab Batch ID:

R235303

Method Blank

RunID: WET_080425ZG-4399614

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

04/25/2008 11:45

Analyst: A_E

08041382-01C

T-17-04-22-08 SUB CAT 'A'

Analyte	Result	Rep Limit
Sulfide	ND	0.050

Laboratory Control Sample (LCS)

RunID:

WET_080425ZG-4399615 Units:

mg/L

Analysis Date:

04/25/2008 11:45

Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfide	0.2500	0.2409	96.35	89	108

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041450-02

RuniD:

WET_080425ZG-4399619 Units:

mg/L

Analysis Date:

04/25/2008 11:45

Analyst: A_E

Analyte	Sample Result	MS Spike Added	M\$ Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfide	ND	0.25	0.2701	91.58	0.25	0.2725	92.55	0.8956	12	84	115

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041382 Page 10

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/5/08 4:50:51 PM

Sample Receipt Checklist And Chain of Custody



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Workorder: Date and Time Received:	08041382 4/23/08 10:00:00 AM			eived By: ier name:	L_C Fedex-Standa	rd Overnight
Temperature:	3.5°C		Chill	ed by:	Water Ice	
1. Shipping container/co	oler in good condition?	Yes 🔽	No □		Not Present	
2. Custody seals intact of	on shippping container/cooler?	Yes [□ No □		Not Present	$ \mathbf{\nabla}$
3. Custody seals intact of	n sample bottles?	Yes [□ No □		Not Present	V
4. Chain of custody pres	ent?	Yes 🛂	No □			
5. Chain of custody sign	ed when relinquished and received?	Yes 🗹	Ø No □			
6. Chain of custody agre	es with sample labels?	Yes 🗹	Ñ No □			
7. Samples in proper con	tainer/bottle?	Yes 🗹	Ø No □			
8. Sample containers into	act?	Yes 🗹	No 🗆			
9. Sufficient sample volume	me for indicated test?	Yes 🗹	0 No □			
10. All samples received w	vithin holding time?	Yes 🗹	No 🗆			
11. Container/Temp Blank	temperature in compliance?	Yes 🗹	⁷ No □			
12. Water - VOA vials have	zero headspace?	Yes 🗆	No 🗆	VOA Vial	s Not Present	V
13. Water - Preservation cl	necked upon receipt (except VOA*)?	Yes 🗹	No □	1	Not Applicable	
*VOA Preservation Che	ecked After Sample Analysis		- <u></u>			
SPL Representativ Client Name Contacted		Contact	Date & Time:			
Non Conformance Issues:						
Client Instructions:						

Apex Laboratories

A804224

08041382

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Tigord, OR 97223 Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager: Darwin Thoxnes

RECEIVING LABORATORY:

SPL, Inc Housina 8880 Interchange Dr. Housina, TX 77054 Phone :(800) 969-6775 Fex: (713) 660-8975

ampic Name: T-17-04-22-08 Sub CA	T 'A'	Water Samp	ded: 94(22/08 10:08 (A804224-03)
Analysis	Due	Expires	Commonte
245,1 Hg (Mercury) · Total (H2O)	05/06/08 17:00	05/20/08 10:00	
608 PCBs	05/06/68 17:00	04/29/08 10:00	Chloritane noty, limit 0.03 mg/Lites
Cyanide, Total	05/06/08 17:00	Q5/06/08 T0:00	
p T 3	05/06/08 17:00	04/23/08 10:00	
Sa (Tin) - 200.7 - Total	05/06/08 17:00	14H19VEB 10:00	
Smilide (376.2)	05/06/08 t7:00	04/29/08 10:00	NaOH bottle pres with Zn Acctate
Fi (Titonium) - 200.8 - Total	05/06/08 17:00	11½, 2408 10400	
Comainers Supplied:			
(C)I L Amber Olass - New Interested			
(D): L'Arther Glass - Non Presurved			
(BiSKI in L Poly - NaOH			
(F)580 ml, Foly - NaOH			
(Pf) 50 mL Poly - Minie (HNC3)			and Milliam Conference in the

Revised chain

Released By Date Received By Date

Page 1 of [

Apex Unboratories A804224

SENDING LABORATORY:

Apax Laboratories 12732 S.W. Gordon Place Tigard, OR 97223

Phone (503) 738-2323 Fax: (503) 718-0332

Project Manager: Darwin Thomas

RECEIVING LABORATORY;

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77034 Phone: (800) 969 6775 Fax: (713) 660-8975

Sample Name: 1-17-94-22-98 Sub CA	T 'A'	Water Samp	led: 04/22/08 10:00	(A804224-01)
Analysis	Des	Expires	Comments	
608 PCBs	05/01/08 17:00	04/29/08 16:06	Chlordane only, limit 0.03	mg/Liter
Cynnitie, Lotal	05/01/08 17:00	05/0 6 /08 10:0 6	·	-
Sulfide (376.2)	05/01/08 17/00	04/29/08 10:00		
Containers Supplied:				
(C)1 L Amber Glass - Nim Presented				
(D)) I. Amber Gass - Non Preserved				
(E)500 mL Foty - NaOH				
r⊞pS00 rgt, Pory - SuOTE				
05259 mL Pady - Nuric (HNO3)				

RUSH

355

28-04/382

72

Released By

Date

Received By

Date

Page i of i

Apex Laboratories

A804224

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223 Phone: (503) 718-2323

Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Housion

8880 Interchange Dr.

Houston, TX 77054

Phone (800) 969-6775

Fax (713) 660-8975

Sample Name: T-17-04-22-08 Sub CAT 'A' Analysis

Water

Papires

04/29/08 10:00

05406/08 10:000

04/29/38 10:00

Due

05/01/08 17:00

05401/08 17:00

05/01/08 17:00

(A804224-01)

608 PCDs Cynnide Total

Sulfide (376.2) Containers Supplied:

(C)11 Amber Glass - Non Preserved

(D)1 L Amber Glass - Non Preserved

(F)See of Day Nation

(0)500 mL/Poly - NaOH

(P)2M mt. haly s Ninia (HNOT)

04/22/08 10:00 Sampled:

Chlordane only, limit 0.03 mg/Liter

18-04/32

Comments

Released By

Dete

Received By

Dam

Page 1 of 1

Apex Laboratories

A804224

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Figurd, OR 97223 Phone: (503) 718-2323

Fax: (503) 715-0333

Project Muzages: Durwin Thomas

(P)250 and Poly • Nºtrio (HNO.0)

RECEIVING LABORATORY;

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77054 Phone :(800) 969-6775 Fax: (713) 660-8975

Sample Nume: T-17-04-22-08 Sub CAT 'A' Water 04/22/08 10:00 (A804224-01) Sampled: Analysis Dre Expires Сопписа 05/01/03 17:00 10/19/08 10:00 20il.8 Ti (Titanium) - Total 05/01/08 17:00 245.1 Hg (Mercury) - Total (H2O) 05/20/08 10:00 608 PCHs 05/01/08 17:90 04/29/08 10:00 Chlordane only, limit 0.03 mg/Liter Cyanile, Fotal 05/01/08 17:00 05/06/08 10:00 pH 05/01/08 17:00 04/23/08 10:00 05/01/08 17:00 04/29/08 10:00 Splitte (376.2) Containers Supplied; (C)1 I. Anster Glass - You Passerved (D)I L Amior Chas - Non Preserved (E)500 ml. (foly - NaQH (F)500 tot, Poly - NaOh

Revised Chain

Received Br

Date

Rolessed By

Date

Received By

Page I of I



Source Name



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner

BATCH DISCHARGE REQUEST FORM Waste Generator Information

Permit Contact

Information

Cascade General Charles Isted Name

> Address Cascade General

Source Address 5555 N. Channel Ave. 5555 N. Channel Ave Portland, OR

> 97217 Portland, OR 97217

503/247-1959 Telephone Number

Facsimile Number 503/247-1391

Batch Information CWTB**Email Address** cisted@casgen.com Batch Number: 620,000 gal

Proposed Discharge Volume:*

Request Date/Time: 5/13/2008 1000 Actual Discharge

Volume:

5/14/08 Sampling Location: Date Proposed: Tank-7, BWTP

Stop: 5/17/08 Duration of Discharge: Start: 5/14/08 1200 Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-B

City Use Only

Discharge flow will be stopped if heavy rain develops. Flow will be held below 180 gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one)

Date of Approval: /2008

Batch discharge approval: YES or NO Approved By: Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Phone: 503-823-5600 TDD: 503-823-3520 www.cleanrivers-pdx.org An Equal Opportunity Employer Printed on recycled paper.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

May, 2008

For Industrial Source Control Division Use Only
Org 2159

Date Postmarked/Received Date Entered

Entered By:

SAMPLE DATE	POINT OF CO	OMPLIANCE SAMPLE TYPE					
05/08/2008	CWT2B			GRAB			
PARAMETER	ANALYSIS METHOD	REPORT CONCENTRA		MDL	LI DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) ¹	EPA 1664			N/A	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	ND		4.81	110 mg/L	N/A	
Cyanide	EPA 335.2	ND		0.0050	1.2 mg/L	N/A	
Sulfide	EPA 376.2	ND		0.050	4.0 mg/L	N/A	
рП	EPA 150.1	8.58 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND		0.00500	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625 SIM	ND	ND		0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND		0.0100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625 SIM	ND	ND		0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625 SIM	ND		0.00952	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 608	ND		0.03	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND		0.0050	0.2 mg/L	N/A	
Chloroform	EPA 624	.0128		0.0100	0.2 mg/L	N/A	
n-Decane	EPA 625 SIM	ND		0.0476	5.79 mg/L	3,31 mg/L	
Fluoranthène	EPA 625 SIM	ND		0.00952	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625 SIM	ND		0.00952	2.0mg/L	N/A	
n-Octadecane	EPA 625 SIM	ND		0.0476	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625 SIM	ND		0.0238	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND		0. 00500	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SA	MPLE TYPE	002 002 003 003 003 003 003 003		
03/20/2008	CV	VT2B	С	OMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA	Property of the country of the second	MDL	LIN DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.8	0.0136		0.00360	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.8	0.0110 mg/	L	0.00500	0.2 mg/L	N/A	
Barium (Total)	EPA 200.8	0.00678 mg/	/L	0.00500	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.8	ND		0.00500	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.8	0.0107 mg/	L	0.00500	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	0.0310 mg/l	0.0310 mg/L		56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	ND		0.0250	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND	ND		0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.1	ND		0.00020	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.8	0.157 mg/L		0.0100	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.8	0.144 mg/L	,	0.00500	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.8	0.0156 mg//	L	0.00500	0.6 mg/L	N/A	
Silver (Total)	EPA 200.8	ND		0.00100	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND		0.4	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.8	0.0759		0.0250	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

l certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the and imprisonment for knowing violations.

Signature:

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Friday, May 9, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for samples received by the laboratory on 4/30/2008 at12:15:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Reported:

Portland, OR 97217

Project Manager: Lian Jewell

05/09/08 18:20

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sub Cat 'B' 5/8/8	A804313-02	Water	05/08/08 00:00	04/30/08 12:15

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 05/09/08 18:20

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)									
Analyte	Result	MDL	Reportina Limit	g Units	Dilution	Date Analyzed	Method	Notes	
Sub Cat 'B' 5/8/8 (A804313-02RE1)			Matrix: W	ater				R-04	
Bis(2-ethylhexyl)phthalate	ND		0.119	mg/L	100	05/09/08 17:09	EPA 625 SIM		
-Cárbazole	ND		0.00952	tī.	п	•	14		
√2,4-Dinitrotoluene	ND		0.00952	P	79	и	v		
Decane	ND		0.0476	15	ır	н	t†		
Fluoranthene	ND		0.00952	D	н	**	H	•	
Nitrobenzene	ND		0.00952	**	n	17	n		
Octadecane	ND		0.0476	n	11	R	Ð		
Pentachlorophenol (PCP)	ND		0.0238	п	**	н	at .		
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 158 %	Limits: 35-120 %	*	н	e _T	S-05	
2,4-Dibromophenol (Surr		86 %	Limits: 30-125 %	•	Œ	n			
2-Fluorobiphenyl (Surr)		108 %		Limits: 45-120 %	1)	If	п		
p-Terphenyl-d14 (Surr)		109 %	Limits: 30-120 %	u.	n	n			

Apex Laboratories

Daim/ June

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/09/08 18:20

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volati	le Organic C	ompou	nds by EPA	4 625 Modi	itied (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050093 - EPA 3510C							Wa	ter				
Blank (8050093-BLK1)						Analyzed:	05/09/08 15	5:11				
EPA 625 SIM					· · · · · · · · · · · · · · · · · · ·							
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1						*	B-02
Carbazole	ND		0.000100	н	н							
2,4-Dinitrotoluene	ND		0.000100	n	н					****		
Decane	ND	•	0.000500	•	9	***						
Fluoranthene	ND		0.000100									
Nitrobenzene	ND		0.000100	н	"							
Octadecane	ND		0.000500	n	•							
Pentachlorophenol (PCP)	ND		0.000250	.,	11							
Surr: Nitrobenzene-d5 (Surr)		Re	covery: 93 %	Limits:	35-120 %	Dil	ution: lx					
2,4-Dibromophenol (Surr)		,,,,	78 %	Dimino.	30-125 %	<i>D</i>	"					
2-Fluorobiphenvl (Surr)			87 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			90 %		30-120 %		"					
, , ,												
LCS (8050093-BS1)						Analyzed:	05/09/08 15	:34				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00521	**-	0.00125	mg/L	1	0.00500		104	40-125%			
Carbazole	0.00485		0.000100	**	0	п		97	ч			
2,4-Dinitrotoluene	0.00519		0.000100	•	π			104	"			
Decane	0.00462		0.000500	n	u			92	11			
Fluoranthene	0.00442		0.000100	Ð	Ħ	**		88	55-120%			
Nitrobenzene	0.00542		0.000100	u	11	u u		108	40-125%			
Octadecane	0.00454		0.000500	н	n	11		91	*			
Pentachlorophenol (PCP)	0.00492		0.000250	и	н	и		98	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	overy: 107%	Limits:	35-120 %	Dilı	ition: Ix					
2,4-Dibromophenol (Surr)			86 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			103 %		45-120%		"					
p-Terphenyl-d14 (Surr)			99 %		30-120 %		"					
LCS Dup (8050093-BSD1)						Analyzed: 0	5/09/08 15:	:57				
EPA 625 SIM						<u> </u>				***************************************		
Bis(2-ethylhexyl)phthalate	0.00496		0.00125	mg/L	1	0.00500		99	40-125%	5	30%	
Carbazole	0.00525		0.000100	n	4	n		105	п	8	30%	
2,4-Dinitrotoluene	0.00540		0.000100	rr	п	19		108	н	4	30%	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/09/08 18:20

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)												
Analyte Result MDL Limit					Dil.	Spike Source Amount Result %RE		%REC	%REC EC Limits RPD		RPD Limit	Notes
Batch 8050093 - EPA 3510C Water												
LCS Dup (8050093-BSD1)						Analyzed:	05/09/08 15	5:57				
Fluoranthene	0.00471		0.000100	mg/L	n	tı		94	55-120%	6	30%	
Nitrobenzene	0.00573		0.000100	**	19	11	•	115	40-125%	5	30%	
Octadecane	0.00487		0.000500	u	**	11		97	**	7	30%	
Pentachlorophenol (PCP)	0.00509		0.000250	u		н		102	40-120%	3	30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 113 %	Limits:	35-120 %	Dil	ution: Ix					
2,4-Dibromophenol (Surr)			90 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			109 %		45-120%		"		•			
p-Terphenyl-d14 (Surr)			103 %		30-120 %		п					

Apex Laboratories

Daum/ Jum

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/09/08 18:20

SAMPLE PREPARATION INFORMATION

Apex Laboratories

	Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)									
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor			
EPA 3510C										
Batch: 8050093 A804313-02RE1	Water	EPA 625 SIM	05/08/08 00:00	05/09/08 10:46	1050mL/5mL	1000mL/5mL	0.95			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 6 of 8

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/09/08 18:20

Notes and Definitions

Qualifiers:

S-05

Batch

QC

A-01 QC sample spiked at high point of calibration curve for decane. 105%R means above calibration curve, samples ND, data accepted.

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

R-04 Reporting levels elevated due to dilution necessary for analysis.

Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix interference.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

> Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample

> provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy

and precision of the extraction and analysis.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'
Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/09/08 18:20

Ja 200		00/-20	ŀ		-																		
1804313 c		1-000-000																		RECEIVED DVI		Princed Navers	Compare
3		President P		经	Jem sig tus	X																	
		Æ		鬟	2-4041	ļ_	_	_	<u> </u>	_	<u> </u>	ļ_	<u> </u>	ļ	<u> </u>		٠.						
4			Ettell:		1305-COLS			-	├	<u> </u>	 	_	<u> </u>		Ŀ								
3		'	Ä	18	ፈርያነት አቀንጋዙ (ቁ) ቁና ሣት ሂኖ ነበ ለ' ሂቀ	<u> </u>		_	\vdash	<u> </u>		<u> </u>	┞	-	-	1							
		St 13		ANALYSIS REQUEST	ر الماري المدركة المدركة لاعم كادر كام دائم أحد أناه الموري الماية الأهر أمان المررية								Ĺ) PRC		Time.	
		٥, (鬟	उत्तासक रोसाक (33)	<u> </u>				_				anere.		١.							
		Sal	ı,				_	<u> </u>	L	_	-		_		_	SPECIAL INSTRUCTIONS				}			
CHAIN OF CUSTODY			겼		8461 Chlee, Pest	\vdash		ļ	<u> </u>	-	-		-		_	Ę				ž.			
ō		fregos Name:			FIRST BARN SESS BEST BYHT		*****				-			-	-	Ę				Haliyouisher av Hamba			
S.		1000			*XXX 6928	Н		_	┢	-			-			7				and .		The same	i i
Š		-			2304 451 455E	\vdash	-	-	├-	┝	├		-		-	DEC.				NA ST	ļ	Yieled Aver	Conspany
. V					STON INDER DATE	-				-		~~~	-	1000		m			Т	2 :A		<u> </u>	-
0			Pluce		xalu		-	-			\vdash		\vdash	-		ı		ì	1				
Z	5				WATER-CT		_		-						_					(2	
- ₹	18.0				MALMEDI		-	L	-		-		-			П			П	,	7	33.0	
3	03.7			Ü	SALMERCID			~						97.22		50			П	_	1	30	.,
•	Frace 3		9		• OF CONTAINERS	4									_	3 SEPUSO	TH T	(Mber)	2	WEBDY FF.	14	GAIN O'BOCH	至
	8.233	护	<u>.</u>		MATREX	الا الارد										3.10 E			DOAY	September 1	7	E CE	رَقِيْ
	h: 503.71	Project Mgr	0,0		INE	Z	_		2000			_				* (TAT) *	Š E	SDAY	LD FOR 3	Dec 4-30-09 Second	200		
	223 P	ڵ	\triangleleft	ل دورم)	atag	32										E T	~		31131	*		7 121 S	
	6	3	ž	3	\$ CEI 8177										i	2	74 HB	4 DAS	Y S	þæe:	1	<u>ji</u>	
APEX LABS	1222 K.H. Garles Place, Tyand, OR 97223 Ph. 505.718-2133 Peer 503.7184343	COMMENTS. CASCADIC ENTINAKAL	Addres 5555 N Charact	<u>ဗ</u>	CAMPLE ID	7-7-04-BO-03										Mannal Turn Arwand Tisse (TAT) * 5-10 Easters Drop	TAT Reminster Separate		SAMPLI	z	bet Can	د بوس/	Cartesy:

Ancx	I ahot	atories
LIPON		401140

Apex Laboratories

A804223

08041433

SENDING LABORATORY:

Apex Laboratories

12232 S.W. Garden Place

Tigard, OR 97223

Phone: (503) 718-2323

Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Houston

8880 Interchange Dr.

Houston, TX 77054

Phone :(800) 969-6775

Fax: (713) 660-8975

Sample Name: T-7-04-22-08 Sub CAT 'B'

Water

Sampled: 04/22/08 09:15

(A804223-01)

Analysis	Due	Expires	Comments
245.1 Hg (Mercury) - Total (H2O)	05/01/08 17:00	05/20/08 09:15	
608 PCBs	05/01/08 17:00	04/29/08 09:15	Chlordanc only, limit 0.03 mg/Liter
Cyanide, Total	05/01/08 17:00	05/06/08 09:15	
Subcontract Outside	05/01/08 17:00	10/19/08 09:15	Total Tin by 200.7. Reporting limit 0.4 mg/L
Sulfide (376.2)	05/01/08 17:00	04/29/08 09:15	
Containers Supplied:			
(C)1 L Amber Glass - Non Preserved			
(D)1 L Amber Glass - Non Preserved			
(E)500 mL Poly - NaOH			
(F)500 mL Poly - NaOH			5
(P)250 mL Poly - Nitric (HNO3)			5.5%

cleased By Date

Received By

Date

Released By

Date

Received By

Date

Page 1 of I

08041433

Apex Laboratories A804223

SENDING LABORATORY:

Apex Laboratories

12232 S.W. Garden Place

Tigard, OR 97223

Phone: (503) 718-2323

Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Houston

8880 Interchange Dr.

Houston, TX 77054

Phone: (800) 969-6775

Fax: (713) 660-8975

Sample Name: T-7-04-22-08 Sub CAT	''B'	Water Sam	opled: 04/22/08 09:15	(A804223-01)
Analysis	Due	Expires	Comments	
245.1 Hg (Mercury) - Total (H2O)	05/01/08 17:00	05/20/08 09:15		
608 PCBs	05/01/08 17:00	04/29/08 09:15	Chlordane only, limit 0.03	mg/Liter
Cyanide, Total	05/01/08 17:00	05/06/08 09:15		
Subcontract Outside	05/01/08 17:00	10/19/08 09:15	Total Tin by 200.7. Report	ting limit 0.4 mg/L.
Sulfide (376.2)	05/01/08 17:00	04/29/08 09:15		
Containers Supplied:				
(C)1 L Amber Glass - Non Preserved				
(D) I L Amber Glass - Non Preserved				
(E)500 mL Poly - NaOH				
(F)500 mL Poly - NaOH				
11)250 mt PolyNunc (HRC)				
(P)250 mL Poly - Nitric (HNO3)				

400 HONAL VOIUME FOR 245.1

RUSH

M27	4/30/8	Cawhite	211108 BX
Released By	Date	Received By	Date
Released By	Date	Received By	Date

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Saturday, May 10, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for samples received by the laboratory on 4/22/2008 at12:45:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell Reported: 05/10/08 12:59

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION Sample ID Laboratory ID Matrix Date Sampled Date Received T-7-04-22-08 Sub CAT 'B' A804223-01 Water 04/22/08 09:15 04/22/08 12:45

Apex Laboratories

Darwin Thomas, Sales/Marketing

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Reported: 05/10/08 12:59

Project Manager: Lian Jewell

ANALYTICAL SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624												
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes				
T-7-04-22-08 Sub CAT 'B' (A804	1223-01)		Matrix: W	ater ater			R-01					
Acrylonitrile	ND		0.0100	mg/L	10	04/30/08 12:29	EPA 624					
Chlorobenzene	ND		0.00500	0	"	,,	87					
Chloroform	0.0128		0.0100	tt	U	19	n ·					
,2-Dichloroethane (EDC)	ND	***	0.00500	tf	17	er	11					
Trichloroethene (TCE)	ND		0.00500		п	и	· ·					
Surrogate: Dibromofluorometh	ane (Surr)	Reco	very: 101 %	Limits: 80-120 %	1	т .	lt.					
1,4-Difluorobenzene	(Surr)		100 %	Limits: 80-120 %		u ·	п					
Toluene-d8 (Surr)			93 %	Limits: 80-120 %	"	ir .	и					
4-Bromofluorobenze	ene (Surr)		98 %	Limits: 80-120 %	U		н					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

ANALYTICAL SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes				
T-7-04-22-08 Sub CAT 'B' (A804223-01)			Matrix: Wate	r								
Arsenic	0.0110		0.00500	mg/L	5	04/29/08 13:58	EPA 200.8					
Barium	0.00678		0.00500			H.	11					
Cadmium	ND		0.00500	ħ	n	Ħ	q					
Çhromium	0.0107		0.00500	п	79	"	**					
Cobalt	0.0310		0.0100	in .	•	. #						
Copper	ND		0.0250	H		н	п					
Lead	ND		0.00500	n	н	п	v					
Molybdenum	0.157		0.0100	ti .	п	O	**					
Nickel	0.144		0.00500	tf.	0	ч	н					
Selenium	0.0156		0.00500	u	n	ч	'n					
Silver	ND		0.0100	n	μ	n n	n					
Zine	0.0759		0,0250	·	n	U	ņ					
T-7-04-22-08 Sub CAT 'B'	(A804223-01RE1)		Matrix: Water	r								
- Antimony	0.0136		0.00360	mg/L	2	05/01/08 11:40	EPA 200.8	Q-				

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

ANALYTICAL SAMPLE RESULTS

	Conventional Chemistry Parameters											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes				
T-7-04-22-08 Sub CAT 'B' (A804223	3-01)		Matrix: Wat	ter								
HEM (Hexane Extracted Material)	ND		4.81	mg/L	1	04/24/08 14:07	EPA 1664	O-01				
pН	8.58			pH Units	u	04/22/08 16:19	EPA 150.1					
pH Temperature	21.0			deg C	n	н	**					

Apex Laboratories

Darm/Jum

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	c Compou	nds by EP	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040339 - EPA 5030B							Wa	ter				
Blank (8040339-BLK1)						Analyzed:	04/30/08 11	:56				
EPA 624							-					
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	н								
Chloroform	ND		0.00100	н	11							
1,2-Dichloroethane (EDC)	ND		0.000500	н	11			***				
Trichloroethene (TCE)	ND		0.000500	a	v							
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dil	ution: 1x					
1,4-Difluorobenzene (Surr)			101 %		80-120 %		n					
Toluene-d8 (Surr)			97 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			103 %		80-120 %		"					
LCS (8040339-BS1)						Analyzed:	04/30/08 10	:48				
EPA 624												
Acrylonitrile	0.0282		0.00100	mg/L	1				50-200%			Q-08
Chlorobenzene	0.0210		0.000500	ıt	n			105	70-130%			
Chloroform	0.0206		0.00100	н	p	"		103	ır			
1,2-Dichloroethane (EDC)	0.0205		0.000500	n	19	H	•••	102	n			
Trichloroethene (TCE)	0.0218		0.000500	п	11			109				
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dili	ution: lx					
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"					
Toluene-d8 (Surr)			95 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			96 %		80-120 %		"					

Apex Laboratories

Daum/Jhim

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 05/10/08 12:59

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040319 - EPA 3015							Wa	ter				
Blank (8040319-BLK1)						Analyzed:	04/29/08 13	3:40				
EPA 200.8												***************************************
Antimony	ND		0.00100	mg/L	1							RE-1
Arsenic	ND		0.00100		0							
Barium	ND		0.00100	н								
Cadmium	ND		0.00100	n	н							
Chromium	ND		0.00100	ų	Ħ							
Cobalt	ND		0.00200	H	**							
Copper	ND		0.00500	*	H							
Lead	ND		0.00100	19	п							
Molybdenum	ND		0.00200	tr.	11							
Nickel	ND	•••	0.00100	н	10							
Selenium	ND		00100.0	н	ìŢ							B-02
Silver	ND		0.00200	**	ц					••-		
Zinc	ND		0.00500	17	"				***			
LCS (8040319-BS1)						Analyzed:	04/28/08 15	:51				
EPA 200.8						·						
Arsenic	0.109		0.00100	mg/L	1	0.111		98	85-115%			
Barium	0.111		0.00100	*	•	11		100	*			
Cadmium	0.109		0.00100	п	ır	n		98	ч			
Chromium	0.114		0.00100	v	п	tt		102				
Cobalt	0.113		0.00200	п	n	If		101	71			
Соррег	0.113		0.00500	н	н	и		101	11			
Lead	0.111		0.00100	я	h	11		100				
Molybdenum	0.117		0.00200	**	н	O		106	*			
Nickel	0.114		0.00100	Ef.	71	et .		103	×			
Selenium	0.0513		0.00100	n	0	0.0555		92	ti			
Zinc	0.109		0.00500	11	*	0.111		98	**		•	
						Analyzed: (4/28/08 16:	:37				
EPA 200.8												
Silver	0.0546		0.00400	н	2	0.0555		98	0			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	5)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040332 - EPA 3015							Wat	ter				
Blank (8040332-BLK1)						Analyzed:	05/01/08 11	:31				
EPA 200.8							** *** *** ***					-
Antimony	ND		0.00100	mg/L	1							B-02
LCS (8040332-BS1)						Analyzed:	05/01/08 11	:34				
EPA 200.8						,						
Antimony	0.0542		0.00100	mg/L	1	0.0556		98	85-115%			Q-23

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

05/10/08 12:59

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	entional Ch	emistr	y Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040254 - Method P	rep: Aq						Wat	er				
Reference (8040254-SRM1)						Analyzed:	04/22/08 14	:37				
EPA 150.1												
рН	7.92			pH Units	1	8.00		99 38.	75-101.25%	4		
Reference (8040254-SRM2)						Analyzed: (04/22/08 15	17				
EPA 150,1									,			
pН	5.01			pH Units	1	5.00		100	98-102%			
Reference (8040254-SRM3)						Analyzed: (04/22/08 16:	:17				
EPA 150.I												
pН	4.96			pH Units	1	5.00		99	98-102%			
Reference (8040254-SRM4)						Analyzed: (04/22/08 17:	21				
EPA 150.1					-		*****					
рН	7.92			pH Units	1	8.00		99 98.	75-101,25%	ŕ		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040264 - EPA 1664							Wat	ter				
Blank (8040264-BLK1)						Analyzed:	04/24/08 14	:07				
EPA 1664												
HEM (Hexane Extracted Material)	ND		5.00	mg/L	I							
LCS (8040264-BS1)						Analyzed:	04/24/08 14	:07				
EPA 1664												
HEM (Hexane Extracted Material)	38.8			mg/L	1	40.0		97	78-114%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 10 of 13

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 05/10/08 12:59

SAMPLE PREPARATION INFORMATION

Apex Laboratories

		P	urgeable Organic Cor	npounds by EPA 624			
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
EPA 5030B							
Batch: 8040339 A804223-01	Water	EPA 624	04/22/08 09:15	04/30/08 09:46	5mL/5mL	5mL/5mL	1.00
			Total Metals by EP	'A 200.8 (ICPMS)			
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
EPA 3015							
Batch: 8040319 A804223-01 Batch: 8040332	Water	EPA 200.8	04/22/08 09:15	04/28/08 09:59	45mL/50mL	45mL/50mL	1.00
A804223-01RE1	Water	EPA 200.8	04/22/08 09:15	04/29/08 12:03	25mL/50mL	45mL/50mL	1.80
			Conventional Chem	istry Parameters			
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
EPA 1664							
Batch: 8040264 A804223-01	Water	EPA 1664	04/22/08 09:15	04/23/08 10:53	1N/A/1N/A Sample	IN/A/1mL Default	NA RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Method Prep: Aq							
Batch: 8040254 A804223-01	Water	EPA 150.1	04/22/08 09:15	04/22/08 13:42	ImL/ImL	20mL/20mL	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 11 of 13

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Portland, OR 97217 Project Manager: Lian Jewell

Reported: 05/10/08 12:59

Notes and Definitions

Qualifiers:

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis

was therefore not performed.

Q-08 Recovery of Lab Control Spike or Matrix Spike was above established control limits for this analyte. Analyte was not detected, therefore

data quality is not affected.

Q-23 Recovery of Continuing Calibration Verification sample above upper control limit. Data is likely biased high.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

RE-1 LCS Recovery of this analyte fell outside of control limits. Batch will be redigested for this analyte.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

QC

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 12 of 13

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/10/08 12:59

CHAIN OF CUSTODY LIME # 10 L723 co	ar: 502-7/8/6333	3			### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 15 ### 16 ########	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX									SPECIAL INSTRUCTIONS:		Other (Oderse		Date Square Date Square	OBrien	
		3	ő.	100	RCRA Mante (5)										GKS:						
×		V)	ne									 	$\vdash \vdash$	_	Ē				2		
8		-tamp		龖		_					<u> </u>	_		_	SE SE				E 023		ĺ
Ě		100	S	髓	And a supplemental to the	L	Ш			_	L	 <u> </u>	 	_	i R				ES .	1	١.
5		, E	M.G.	臘	-,	_					2,,,,,,	<u> </u>		_					E1780	2	Chemic
Ü			17.	쀎		ļ.,						L	_		5				# #	Ĕ	ĺ
Ŧ			W.	鄽							_	Ŀ	_		1		ا ي				
7 .	_		'nĕ	噩		L								_			*		د	15	
Ħ	.633			變						ļ	ļ.,	 		_		4	1		ام ھ	1.3	
H	3.5			影		L									,		ଠା		1/	180	
Ũ	503		S	壁	WALES HED										ál,	ų,	7		ž //	0	١
	123 Fare			1 1	A OŁ CONIVERS	× 13		_				 		_	Braince		9	175	ر المراقعة المراقعة	Service Services	Num.
	* 5	herr	120g		HATTRE	LUST		_				 		_	Ĭ.		_	0	# 33 /	753	ď
	1.503.7	Panjestheer			a W ui.	2 9:15										ij	SBA	D FOR 3	20.5	\$ ·	
	1323 PR	7	かん	30	37.40	24.40		_				 			a barurá Tur 24 HR	£	(V	RE HE	4-2	Ters 12.1 ዛS	
	8 8	£1%,	4	3	# OI 9Y T			_	_			٠	Ш	_	Ž ;	Ş	ĝ	13	<u>3</u>	ļĝ.	
APEX LABS	1233 S.H. Oordet Place. Navel OR 97273 Pr. 502-718-2323 Fas: 502-718-6333	COMPANY CASCADE GENERAL	NOTION STORE NO CHANNEL	Consider Bolo Cellinia	SAMPLETO	7-7-04-22-08	Sub (AP 173 /								North Tep Anyth Time (TAD = 5-10 Basiness Days	TAT Requested (checks)		1	The state of the s	Sol Collins	Cirispens:

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08041433

Report To: Project Name: A804223 Tigard, OR Site: **APEX Laboratories Darwin Thomas** Site Address: 12232 SW Garden Place

PO Number: **Portland**

State: Oregon or 97223-TX200001 State Cert. No.: ph: (503) 718-2323 fax:

This Report Contains A Total Of 11 Pages

Date Reported:

Excluding This Page, Chain Of Custody

And

Any Attachments



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: APEX Laboratories

Certificate of Analysis Number:

08041433

A804223 Report To: Project Name: Site: Tigard, OR APEX Laboratories Darwin Thomas Site Address: 12232 SW Garden Place PO Number: **Portland** State: Oregon OR 97223-State Cert. No.; TX200001 ph: (503) 718-2323 fax: **Date Reported:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry").

Your sample ID "T-7-04-22-08 Sub CAT 'B" (SPL ID: 08041433-01) was analyzed for Chlordane by EPA method 608. The surrogates were below the quality control limits due to matrix interference. The sample was re-extracted and re-analyzed with confirming results. In addition, the sample was reported at a dilution due to internal standard failures at lower dilutions. The lowest possible dilution was performed.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID:77995 for the Pesticides analysis by EPA Method 608. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in fulf, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08041433 Page 1

5/5/2008

Bethany A. Agarwal

Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08041433

Matrix

Water

Report To:

Fax To:

T-7-04-22-08 Sub CAT 'B'

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR

97223-

ph: (503) 718-2323

Client Sample ID

fax: (503) 718-0333

Project Name:

A804223

Tigard, OR

Site Address:

PO Number:

State:

Date Collected

4/22/2008 9:15:00 AM

Site:

Oregon TX200001

4/23/2008 10:00:00 AM

COCID

HOLD

State Cert. No.:

Date Reported:

Date Received

Lab Sample ID

08041433-01

5/5/2008

Bethany A. Agarwai Senior Project Manager Date

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08041433 Page 2 5/5/2008 5:04:13 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-7	7-04-22-08 Sub CAT 'B'		Collected:	04/22/2008	8 9:15	SPL Sa	mple ID: 08	041433-01
			Site: Ti	gard, OR				
Analyses/Method	Result	QUAL	Rep.Limit	D	Dil. Factor		lyzed Analys	t Seq.#
CYANIDE, TOTAL				MCL		E335.2	Units: mg/	L
Cyanide	ND		0.005		1	04/28/08	16:00 ESK	4402637
Prep Method	Prep Date	Prep Initials	Prep Factor					
E335.2	04/28/2008 10:00	ESK	1.00					
MERCURY, TOTAL		MCL		E245.1	Units: mg/	L		
Mercury	ND		0.0002		1	05/01/08	16:33 CMC	44 10548
Prep Method	Prep Date	Prep Initials	Prep Factor					
E245.1	05/01/2008 13:00	СМС	1.00					
METALS BY METHO	D 200.7. TOTAL			MCL		E200.7	Units: mg/	L
. Tin	ND		0.4		1	04/28/08		4405051
Prep Method	Prep Date	Prep Initials	Prep Factor					
E200.7/200.8	04/25/2008 13:05	DDW	1.00					
PESTICIDE/PCBS BY	METHOD 608	MCL		E608	Units: mg/			
Chlordane	ND		0.03		5	04/28/08		4404895
Surr: Decachlorobiph	enyl 0 MI	*	% 35-124		5	04/28/08	17:36 CLJ	4404895
Surr: Tetrachloro-m-x	ylene 25 MI	*	% 48-120		5	04/28/08	17:36 CLJ	4404895
Prep Method	Prep Date	Prep Initials	Prep Factor					
E608		N_M	1.00					
SULFIDE, TOTAL				MCL		E376.2	Units: mg/	<u> </u>
Sulfide	ND		1.25		25	04/25/08	11:45 A_E	4399622

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08041433 Page 3 5/5/2008 5:04:23 PM

Quality Control Documentation



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

APEX Laboratories A804223

Analysis:

Pesticide/PCBs by Method 608

Method:

E608

WorkOrder:

08041433

Lab Batch ID:

77995

Method Blank

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

RunID: VARG_080428A-4404891

Units:

mg/L CLJ

08041433-01B

T-7-04-22-08 Sub CAT 'B'

Analysis Date: Preparation Date:

04/28/2008 14:28 04/24/2008 7:55

Analyst:

Prep By: N_M Method E608

Analyte Result | Rep Limit Chlordane ND 0.0060 Surr: Decachlorobiphenyl 52.6 35-124 Surr: Tetrachloro-m-xylene 48-120

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

VARG_080428A-4404892 Units:

mg/L

Analysis Date:

04/28/

3/2008 15:07	Analyst:	CLJ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chlordane	0.00500	0.00506	101	0.00500	0.00489	97.9	3.3	20	45	119
Surr: Decachlorobiphenyl	1.00	0.880	88.0	1.00	0.843	84.3	4.3	30	35	124
Surr: Tetrachloro-m-xylene	1.00	0.820	82.0	1.00	0.771	77.1	6.2	30	48	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041433 Page 5

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories A804223

Analysis:

Metals by Method 200.7, Total

Method:

E200.7

WorkOrder:

08041433

Lab Batch ID:

78095

Method Blank

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

RunID: TJA_080428A-4405037

Units:

EG

08041433-01A

T-7-04-22-08 Sub CAT 'B'

Preparation Date:

04/28/2008 22:00 04/25/2008 13:05 Analyst:

Prep By: DD Method E200.7/200.8

	_	
Analyte	Result	Rep Limit
Tin	ND	0.4

Laboratory Control Sample (LCS)

RuniD:

TJA_080428A-4405039

Units:

mg/L

04/28/2008 22:05 Analysis Date:

Analyst:

EG

Preparation Date: 04/25/2008 13:05

Prep By:

Method E200.7/200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Tin	1.000	1.066	106.6	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041342-01

RunID:

TJA_080428A-4405042

Units:

mg/L

Analysis Date: Preparation Date: 04/28/2008 22:14

FG Analyst:

04/25/2008 13:05

Prep By: DD Method E200.7/200.8

	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Т	in	ND	1	1.029	102.9	1	1.060	106.0	3.005	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041433 Page 6

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories A804223

Analysis:

Mercury, Total

Method:

E245.1

WorkOrder:

08041433

Lab Batch ID:

78377

Method Blank

RuniD: HGLC_080501A-4410543

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

05/01/2008 16:18

Analyst: . CMC

08041433-01A

Samples in Analytical Batch:

T-7-04-22-08 Sub CAT 'B'

Preparation Date:

05/01/2008 13:00

Prep By: CMC Method E245.1

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID:

HGLC_080501A-4410544

Units:

Analysis Date: 05/01/2008 16:21 ma/L

Preparation Date:

Analyst: CMC

05/01/2008 13:00 Prep By: CMC Method E245.1

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001944	97.20	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041788-01

RunID:

HGLC_080501A-4410547

Units:

mg/L

Analysis Date:

05/01/2008 16:30

CMC Analyst:

Preparation Date: 05/01/2008 13:00 Prep By:

CMC Method E245.1

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.001655	82.76	0.002	0.001873	93.67		20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041433 Page 7

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories A804223

Analysis:

Cyanide, Total

Method:

E335.2

WorkOrder:

08041433

Lab Batch ID:

78182

Method Blank

RuniD: WET_080428X-4402630

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

04/28/2008 16:00

Analyst: **ESK** 08041433-01C

T-7-04-22-08 Sub CAT 'B'

Preparation Date:

04/28/2008 10:00 ESK Method E335.2 Prep By:

Ana	llyte	Result	Rep Limit
Cyanide		ND	0.0050

Laboratory Control Sample (LCS)

RunID:

WET_080428X-4402631

Units:

mg/L

Analysis Date: Preparation Date: 04/28/2008 10:00

04/28/2008 16:00

Analyst: **ESK**

Prep By: ESK Method E335.2

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Cyanide	0.2000	0.2083	104.1	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041243-02

RunID:

WET_080428X-4402635

Units:

mg/L **ESK**

Analysis Date: Preparation Date: 04/28/2008 16:00 04/28/2008 10:00 Analyst: Prep By:

Method E335.2

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	
Cyanide	NE	0.2	0.2093	103.6	0.2	0.2112	104.6	0.9323	20		125	i

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041433 Page 8

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

APEX Laboratories A804223

Analysis:

Sulfide, Total

Method:

E376.2

4804223

WorkOrder:

08041433

Lab Batch ID:

Samples in Analytical Batch:

R235303

Method Blank

RunID: WET_080425ZG-4399614

Units:

mg/L A_E

Lab Sample ID

Client Sample ID

Analysis Date:

04/25/2008 11:45

Analyst:

08041433-01D

T-7-04-22-08 Sub CAT 'B'

Analyte	F	Result	Rep Limit
Sulfide		ND	0.050

Laboratory Control Sample (LCS)

RunJD:

WET_080425ZG-4399615 Units:

mg/L

Analysis Date:

04/25/2008 11:45

Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfide	0.2500	0.2409	96.35	89	108

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08041450-02

RunID:

WET_080425ZG-4399619 Units:

mg/L

Analysis Date:

04/25/2008 11:45

Analyst: A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfide	ND	0.25	0.2701	91.58	0.25	0.2725	92.55	0.8956	12	84	115

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08041433 Page 9

•QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist And Chain of Custody



Sample Receipt Checklist

Workorder: 08041433 Date and Time Received: 4/23/2008 10:00:00 AM Temperature: 3.5°C		Received By: Carrier name: Chilled by:	L_C Fedex-Standard Overnight Water Ice
1 Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present
Custody seals intact on shippping container/cooler?	Yes 🗌	No 🗀	Not Present ✓
3. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present
4. Chain of custody present?	Yes 🗹	No 🗆	
5. Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆	
6. Chain of custody agrees with sample labels?	Yes 🗹	No 🗆	
7. Samples in proper container/bottle?	Yes 🔽	No 🗌	
8. Sample containers intact?	Yes 🗹	No 🗆	
9. Sufficient sample volume for indicated test?	Yes 🗹	No 🗆	
10. All samples received within holding time?	Yes 🗹	No 🗆	
11. Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗆	
12. Water - VOA vials have zero headspace?	Yes	No □ VOA	Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)?	Yes 🗹	No 🗆	Not Applicable
*VOA Preservation Checked After Sample Analysis			
SPL Representative:	Contact Date &	Time:	
Client Name Contacted:			J
Non Conformance Issues:			
Client Instructions:			



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Permit Contact Information Waste Generator Information Source Name Cascade General Alan Sprott Name Company Name Cascade General 5555 N. Channel Ave Source Address 5555 N. Channel Address Ave. Portland, OR 97217 Portland, OR 97217 503/247-1672 Telephone Number Facsimile Number 503/247-6050 Batch Information CWTA**Email Address** asprott@casgen.com Batch Number: Proposed Discharge 500,000 gal Volume:* Request Date/Time: 6/02/06 11:00a.m. Actual Discharge Volume: 6/6/06 Sampling Location: Date Proposed: Duration of Discharge: Sampled? YES Start: Stop: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-A Discharge flow will be stopped if heavy rain develops. Flow will be held below gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only YES or NO Batch discharge approval: Date of Approval: /2006Approved By: Chris Collett Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best

of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	_ Date:	

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAM	IE.

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

May 2006

For	Industrial	Source	Control	Division	Use	Only
		Oı	rg 2159			

Date Postmarked/Received

Date Entered

Entered By:

Comments:

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
5/9/06	CW	VT2A	CZA GRAB			发生产的基件
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATE		DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	20.3 mg/L	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	13.4 mg/L	2.0	110 mg/L	N/A	
РН	EPA 150.1	10 SU		5.0 - 11.5	N/A	
Cyanide (Total)	SM 4500	ND mg/L	0.0030	1.2 mg/L	N/A	
Sulfide (Dissolved)	EPA 376.1	ND mg/L	1.0	4.0 mg/L	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L	0.0005	0.50 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L	0.0070	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND mg/L	0.10	1.0 mg/L	N/A	
Chlordane	EPA 625	ND mg/L	0.004	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	
Chloroform	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	
Nitrobenzene	EPA 625	ND mg/L	0.0035	2.0 mg/L	N/A	
Pentachlorophenol	EPA 625	ND mg/L	0.033	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-1. Polar constituent.

SAMPLE DATE			LE TYPE					
4/07/06			CWT2A COMPOSITE					
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION				LIMITS DAILY MONTHLY		
Antimony (Total)	EPA 200.7	ND mg/L		0.020	0.249 mg/L	0.206 mg/L		
Arsenic (Total)	EPA 200.7	ND mg/L		0.010	0.162 mg/L	0.104 mg/L		
Cadmium (Total)	EPA 200.7	ND mg/L		0.003	0.474 mg/L	0.0962 mg/L		
Chromium (Total)	EPA 200.7	ND mg/L		0.005	5.0 mg/L	3.07 mg/L		
Cobalt (Total)	EPA 200.7	ND mg/L		0.01	0.192 mg/L	0.124 mg/L		
Copper (Total)	EPA 200.7	0.034 mg/I		0.005	3.7 mg/L	1.06 mg/L		
Lead (Total)	EPA 200.7	0.009 mg/	L	0.005	0.7 mg/L	0.283 mg/L		
Mercury (Total)	EPA 245.7	ND mg/L		0.00005	0.00234 mg/L	0.000739 mg/L		
Molybdenum (Total)	EPA 200.7	ND mg/L		0.005	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	ND mg/L		0.020	2.8 mg/L	1.45 mg/L		
Selenium (Total)	EPA 200.7	ND mg/L		0.10	0.6 mg/L	0.408 mg/L		
Silver (Total)	EPA 200.7	ND mg/L		0.010	0.120 mg/L	0.0351 mg/L		
Tin (Total)	EPA 200.7	ND mg/L		0.04	0.409 mg/L	0.120 mg/L		
Titanium (Total)	EPA 200.7	ND mg/L		0.05	0.0947 mg/L	0.0618 mg/L		
Vanadium (Total)	EPA 200.7	ND mg/L		0.010	0.218 mg/L	0.0662 mg/L		
Zinc (Total)	EPA 200.7	0.023 mg/I		0.003	2.87 mg/L	0.641 mg/L	The second	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:
Signature:	Date:



Water Pollution Control Laboratory

6543 North Burlington Avenu	U	3-5452 Dean Marriott, Directo ARGE REQUEST FORM	or Dan Saltzman, Commissioner
Waste Generator Information		Permit Contact Information	
Source Name	Cascade General	Name	Alan Sprott
		Company Name	Cascade General
Source Address	5555 N. Channel	Address	5555 N. Channel Ave
	Ave. Portland, OR		n .1 1 0n 0m1m
	97217	77 1 1 NJ 1	Portland, OR 97217
		Telephone Number Facsimile Number	503/247-1672 503/247-6050
Batch Information	CWT B	Email Address	asprott@casgen.com
Batch Number:	CWID	Proposed Discharge	40,000 gal
		Volume:*	, 8
Request Date/Time:	6/29/2006 11:00am	Actual Discharge	
		Volume:	
Date Proposed:	6/30/06	Sampling Location:	a 1 10 VVDA 110
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
Detail the Process(es) Gen CWT-B	erating wastewater &	wastewater Characteristics	}
CW1-D			
			•
Discharge flow will be sto Are the analysis sheets, QA	•	-	l below gpm. S or NO (circle one)
City Use Only			. ·
Batch discharge approval:	YES or NO	Date of Approval:	/ /2006
Approved By: Chris (Dute of Approval.	7 2000
Batch Discharge Denied I	Oue to the Following:		•
supervision in accord evaluate the informati or those persons direc of my knowledge and	ance with a system design on submitted. Based on m tly responsible for gatherin belief, true, accurate, and	t and all attachments were prepared to ensure that qualified person inquiry of the person or person g the information, the information complete. I am aware that the	onnel properly gather and as who manage the system, on submitted is, to the best re are significant penalties
for submitting false in	formation, including the po	ossibility of fine and imprisonme	nt for knowing violations.
C:amatuus.		Data	

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME: Cascade General

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD: March 2006

e Postmarked/Received	Date Entered
	Entered By:
ments:	

SAMPLE DATE	MPLE DATE POINT OF COMPLIANCE SAMPLE TYPE 6/28/06 CWT2B GRAB						
6/28/06			G	RAB			
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION		MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	24.1 mg/L		5.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	8.8 mg/L		5.0	110 mg/L	N/A	
Cyanide	SM 4500	ND		0.005	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND		1.0	4.0 mg/L	N/A	
рН	EPA 150.1	9.21 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L		0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L		0.0940	0.13 mg/L	N/A	line of the
Acrylonitrile	EPA 624	ND mg/L		0.010	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND mg/L		0.0470	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND mg/L		0.0470	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND mg/L		0.03130	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L		0.0005	0.2 mg/L	N/A	
Chloroform	EPA 624	0.0022 mg/L		0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND mg/L		0.0470	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND mg/L		0.0470	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND mg/L		0.0470	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND mg/L		0.0470	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND mg/L		0.235	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND mg/L		0.0005	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE				
6/28/06	CW	CWT2B COMPOSIT					
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRAT		DAILY	MITS MONTHLY	COMMENTS	
Antimony (Total)	EPA 200.7	ND mg/L	0.080	0.237 mg/L	0.141 mg/L		
Arsenic (Total)	EPA 200.7	ND mg/L	0.020	0.2 mg/L	N/A		
Barium (Total)	EPA 200.7	ND mg/L	0.002	0.427 mg/L	0.281 mg/L		
Cadmium (Total)	EPA 200.7	ND mg/L	0.003	0.7 mg/L	N/A		
Chromium (Total)	EPA 200.7	0.005 mg/	L 0.005	0.947 mg/L	0.487 mg/L		
Cobalt (Total)	EPA 200.7	0.045 mg/	L 0.01	56.4 mg/L	18.8 mg/L		
Copper (Total)	EPA 200.7	0.014 mg/I	L 0.005	0.405 mg/L	0.301 mg/L		
Lead (Total)	EPA 200.7	ND mg/L	0.005	0.222 mg/L	0.172 mg/L		
Mercury (Total)	EPA 245.7	ND mg/L	0.00005	0.01 mg/L	N/A		
Molybdenum (Total)	EPA 200.7	0.43 mg/L	0.005	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	0.103 mg/L	0.02	2.8 mg/L	N/A		
Selenium (Total)	EPA 200.7	ND mg/L	0.1	0.6 mg/L	N/A		
Silver (Total)	EPA 200.7	0.487 mg/I	0.010	0.4 mg/L	N/A		
Tin (Total)	EPA 200.7	ND mg/L	0.2	0.4 mg/L	N/A		
Zinc (Total)	EPA 200.7	0.22 mg/L	0.003	3.7 mg/L	N/A	N. Elkaria Ca	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:		



CLIENT: Cascade General

ATTN: Alan Sprott

P.O. Box 4367 Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test -A Subcat

PROJECT NUMBER: T-7-6-19

PHONE: (503) 703-0875 FAX: (503) 247-6050

SUBMITTED: 06/19/06 10:23

REPORT DATE: 06/28/06 13:18

REPORT NUMBER: 6061908

PAGE: 1 OF 19

CISAMPLE	CLIENTS ID#		DATE		MATRIX			
6061908-01	T-7-6 -1 9		06/19	9/2006 1000	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6061908-01	SAMPLE ID: T-7-6	-19						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	ND	mg/L	0.0030	DAU	06/23/2006 09:51	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	8.8	mg/L	2.0	JRW	06/22/2006 15:36	
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	24.1	mg/L	2.0	JRW	06/22/2006 15:36	
PH	EPA 150.1/9040	pН	9.21	SU		DAU	06/19/2006 15:31	
		TEMPERATURE (C)	18.2	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	DAU	06/23/2006 09:21	
Total Mercury by	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEL	06/23/2006 13:32	
Total Metals by	Inductively Coupled	l Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.10	KEL	06/20/2006 16:05	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	KEL	06/20/2006 16:28	
BARIUM - ICP		BARIUM	ND	mg/L	0.002	KEL	06/20/2006 16:28	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	06/20/2006 16:28	
CHROMIUM - ICP		CHROMIUM	0.005	mg/L	0.005	KEL	06/20/2006 16:28	
COBALT - ICP		COBALT	0.045	mg/L	0.010	KEL	06/20/2006 16:05	
COPPER - ICP		COPPER	0.014	mg/L	0.005	KEL	06/20/2006 16:05	
LEAD - ICP		LEAD	ND	mg/L	0.005	KEL	06/20/2006 16:28	
MOLYBDENUM -		MOLYBDENUM	0.43	mg/L	0.005	KEL	06/20/2006 16:05	
NICKEL - ICP		NICKEL	0.103	mg/L	0.020	KEL	06/20/2006 16:05	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	06/20/2006 16:28	
SILVER - ICP		SILVER	0.487	mg/L	0.010	KEL	06/21/2006 15:21	
TIN - ICP		TIN	ND	mg/L	0.040	DAU	06/26/2006 14:16	
ZINC - ICP		ZINC	0.22	mg/L	0.003	KEL	06/20/2006 16:05	
Volatile Organic VOC 624 Extended	*	graphy/Mass Spectroscopy ACRYLONITRILE	ND	mg/L	0.0100	JRW	06/21/2006 10:53	

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	: 06/28/06 13:18	REPORT	PAGE: 2 OF 19					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6061908-01	SAMPLE ID: T-7-6-19)						
Volatile Organics	s by Gas Chromatogra	aphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	CHLOROBENZENE	ND	mg/L	0.0005	JRW	06/21/2006 10:53	
		CHLOROFORM	0.0022	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	58.9 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	61.8 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	133 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	77.2 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chrom	natography/Mass Spectroscopy						
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0350	DM	06/27/2006 19:09	
		Surrogate: Phenol-d6	82.0 %	%RECOVERY	50-150			
		Surrogate: 2,4,6-Tribromophenol	51.9 %	%RECOVERY	50-150			
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.00700	DM	06/27/2006 19:09	
		CARBAZOLE	ND	mg/L	0.00700			
		N-DECANE	ND	mg/L	0.00700			
		2,4-DINITROTOLUENE	ND	mg/L	0.0140			
		FLUORANTHENE	ND	mg/L	0.00700			
		N-OCTADECANE	ND	mg/L	0.00700			
		Surrogate: 2-Fluorobiphenyl	65.9 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	99.4 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	65.9 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chrom	natography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0035	DM	06/28/2006 12:12	
		AROCHLOR 1221	ND	mg/L	0.0035			
		AROCHLOR 1232	ND	mg/L	0.0035			
		AROCHLOR 1242	ND	mg/L	0.0035			
		AROCHLOR 1248	ND	mg/L	0.0035			
		AROCHLOR 1254	ND	mg/L	0.0035			
		AROCHLOR 1260	ND	mg/L	0.0035			
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00467	DM	06/27/2006 19:09	
				-				

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 3 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F19016 - General Prep	aration									
QC SAMPLE: Duplicate (6F19016-DUP1)		_	Source: 606	1908-01	Prepared 8	& Analyzed	I: 06/19/06			
pH	9.22		SU		9.21			0.109	10	
TEMPERATURE (C)	18.2		n		18.2			0.00	200	
QC SAMPLE: Reference (6F19016-SRM1)	+				Prepared 8	& Analyzed	1: 06/19/06			
pH	5.01		SU	5.00		100	97.5-102			
QC SAMPLE: Reference (6F19016-SRM2)					Prepared 8	& Analyzed	I: 06/19/06			
pΗ	7.96		SU	8.00		99.5	97.5-102			
BATCH: Batch 6F22010 - Water Extrac	tion									
QC SAMPLE: Blank (6F22010-BLK1)					Prepared 8	& Analyzed	1: 06/22/06			
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
TOTAL OIL AND GREASE	ND	2.0	I†							
QC SAMPLE: LCS (6F22010-BS1)					Prepared 8	& Analyzed	1: 06/22/06			
NONPOLAR OIL & GREASE	18.4	2.0	mg/L	20.4	1	90.2	66-114			
TOTAL OIL AND GREASE	41.8	2.0	n	40.5		103	79-114			
QC SAMPLE: LCS Dup (6F22010-BSD1)					Prepared 8	& Analyzed	1: 06/22/06			
NONPOLAR OIL & GREASE	19.2	2.0	mg/L	20.4		94.1	66-114	4.26	24	
TOTAL OIL AND GREASE	41.0	2.0	н	40.5		101	79-114	1.93	18	
BATCH: Batch 6F23004 - General Prep	aration									
QC SAMPLE: Blank (6F23004-BLK1)					Prepared 8	& Analyzed	1: 06/23/06			
CYANIDE. TOTAL	ND	0.0030	ma/L							



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 4 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F23004 - General Prep	aration									
QC SAMPLE: Duplicate (6F23004-DUP1)		;	Source: 606	1908-01	Prepared	& Analyzed	1: 06/23/06			
CYANIDE, TOTAL	ND	0.0030	mg/L		ND				20	
QC SAMPLE: Reference (6F23004-SRM1)					Prepared	& Analyzed	1: 06/23/06			
CYANIDE, TOTAL	0.0774	0.0030	mg/L	0.0800		96.8	90-110			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 5 OF 19

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6F23015 - ***Metals Pre	p***									
QC SAMPLE:	Blank (6F23015-BLK1)					Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Blank (6F23015-BLK2)					Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6F23015-	CCB1)_				Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6F23015-	CCB2)				Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6F23015-	CCB3)				Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6F23015-	CCB4)				Prepared	& Analyzed	: 06/23/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (6F23015-SRM1)			,		Prepared	& Analyzed	: 06/23/06_		. 141.7	
MERCURY		0.00024	0.000050	mg/L	0.00020		120	90-110			
QC SAMPLE:	Reference (6F23015-SRM2)					Prepared	& Analyzed	: 06/23/06			
MERCURY		0.00026	0.000050	mg/L	0.00020		130	90-110			
QC SAMPLE:	Reference (6F23015-SRM3)					Prepared	& Analyzed	: 06/23/06		,,,	
MERCURY		0.00015	0.000050	mg/L	0.00020		75.0	90-110			
QC SAMPLE:	Reference (6F23015-SRM4)					Prepared	& Analyzed	: 06/23/06			
MERCURY		0.00012	0.000050	mg/L	0.00010		120	90-110			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 6 OF 19

Total Mercury by	Cold Vapor	Atomic Fluorescence	- Quality Control
------------------	------------	---------------------	-------------------

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F23015 -	***Metals Prep***									
QC SAMPLE: Reference (6F23015-SRM5)				Prepared	& Analyzed	I: 06/23/06			
MERCURY	0.00010	0.000050	mg/L	0.00010		100	90-110			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 7 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6F20012 - ***Metals Pr	ep***									
QC SAMPLE:	Blank (6F20012-BLK1)					Prepared	& Analyzed	: 06/20/06			
ANTIMONY		0.115	0.090	mg/L							
COBALT		ND	0.0090	"							
COPPER		ND	0.004	11							
MOLYBDENUM		ND	0.004	**							
NICKEL		ND	0.018								
ZINC .		0.007	0.003	"							QB-01
QC SAMPLE:	Calibration Blank (6F2001)	2-CCB1)				Prepared	& Analyzed	: 06/20/06			
ANTIMONY		ND	0.090	mg/L							
COBALT		ND	0.0090								
COPPER		ND	0.004								
MOLYBDENUM		ND	0.004								
NICKEL		ND	0.018	"							
ZINC		0.008	0.003	**							
QC SAMPLE:	Calibration Blank (6F2001)	2-CCB2)				Prepared	& Analyzed	: 06/20/06			
ANTIMONY		ND	0.090	mg/L							
COBALT		ND	0.0090	**							
COPPER		ND	0.004								
MOLYBDENUM		ND	0.004	**							
NICKEL		ND	0.018	**							
ZINC		0.007	0.003	**							
QC SAMPLE:	Reference (6F20012-SRM1)				Prepared	& Analyzed	: 06/20/06			
ANTIMONY		0.979	0.090	mg/L	1.00		97.9	85-115		<u>-</u>	
COBALT		0.909	0.0090	"	1.00		90.9	85-115			
COPPER		0.963	0.004		1.00		96.3	85-115			
MOLYBDENUM		0.963	0.004	"	1.00		96.3	85-115			
NICKEL		0.974	0.018	"	1.00		97.4	85-115			
ZINC		0.975	0.003	**	1.00		97.5	85-115			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 8 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	:h 6F20012 - ***Metals Prep	***									
QC SAMPLE:	Reference (6F20012-SRM2)					Prepared	& Analyzed	: 06/20/06			
ANTIMONY		1.29	0.090	mg/L	1.00		129	85-115			
COBALT		0.988	0.0090	**	1.00		98.8	85-115			
COPPER		0.963	0.004	"	1.00		96.3	85-115			
MOLYBDENUM		0.963	0.004	**	1.00		96.3	85-115			
NICKEL		0.974	0.018	"	1.00		97.4	85-115			
ZINC		0.964	0.003	"	1.00		96.4	85-115			
BATCH: Batc	h 6F20014 - ***Metals Prep	***									
QC SAMPLE:	Blank (6F20014-BLK1)					Prepared 8	& Analyzed	: 06/20/06			
ARSENIC		ND	0.009	mg/L							
BARIUM		ND	0.002								
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004	0							
LEAD		ND	0.004								
SELENIUM		ND	0.090	n							
QC SAMPLE:	Calibration Blank (6F20014-0	CCB1)				Prepared 8	& Analyzed	: 06/20/06			
ARSENIC		ND	0.009	mg/L							
BARIUM		ND	0.002	11							
CADMIUM		ND	0.003	11							
CHROMIUM		ND	0.004								
LEAD		ND	0.004								
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (6F20014-0	CB2)				Prepared 8	& Analyzed	: 06/20/06			
ARSENIC		ND	0.009	mg/L							
BARIUM		ND	0.002	11							
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004	ii ii							
LEAD		0.004	0.004	"							
SELENIUM		ND	0.090	"							



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 9 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6F20014 - ***Metals Prep)*** 									
QC SAMPLE:	Reference (6F20014-SRM1)					Prepared	& Analyzed	: 06/20/06			
BARIUM		1.03	0.002	mg/L	1.00		103	85-115			
QC SAMPLE:	Reference (6F20014-SRM2)					Prepared	& Analyzed	: 06/20/06			
BARIUM		0.960	0.002	mg/L	1.00		96.0	85-115			
QC SAMPLE:	Reference (6F20014-SRM3)					Prepared	& Analyzed	: 06/20/06			
ARSENIC		0.979	0.009	mg/L	1.00		97.9	85-115			
CADMIUM		1.01	0.003	,,	1.00		101	85-115			
CHROMIUM		0.998	0.004	**	1.00		99.8	85-115			
LEAD		1.01	0.004		1.00		101	85-115			
SELENIUM	-	1.26	0.090	"	1.00		126	85-115			
QC SAMPLE:	Reference (6F20014-SRM4)					Prepared	& Analyzed	: 06/20/06			
ARSENIC		0.906	0.009	mg/L	1.00		90.6	85-115		•	
CADMIUM		0.952	0.003	"	1.00		95.2	85-115			
CHROMIUM		0.957	0.004	***	1.00		95.7	85-115			•
LEAD		0.952	0.004	"	1.00		95.2	85-115			
SELENIUM		1.25	0.090	п	1.00		125	85-115			
BATCH: Batc	h 6F21018 - ***Metals Prep)***									
QC SAMPLE:	Blank (6F21018-BLK1)	· ·				Prepared 6	& Analyzed	: 06/21/06			_
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (6F21018-	CCB1)				Prepared 6	& Analyzed	: 06/21/06			
SILVER	,	ND	0.009	mg/L							

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 10 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 6F21018 - ***Metals Prep)***									
QC SAMPLE:	Calibration Blank (6F21018-0	CCB2)				Prepared	& Analyzed	06/21/06			
SILVER		0.0430	0.009	mg/L							
QC SAMPLE:	Reference (6F21018-SRM1)					Prepared	& Analyzed	06/21/06			
SILVER		0.443	0.009	mg/L	0.500		88.6	85-115			
QC SAMPLE:	Reference (6F21018-SRM2)					Prepared	& Analyzed:	06/21/06			
SILVER		0.610	0.009	mg/L	0.500		122	85-115			
BATCH: Batc	:h 6F26003 - ***Metals Prep)***									
QC SAMPLE:	Blank (6F26003-BLK1)					Prepared	& Analyzed:	06/26/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6F26003-0	CCB1)				Prepared •	& Analyzed:	06/26/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6F26003-0	CCB2)	-			Prepared	& Analyzed:	06/26/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (6F26003-SRM1)					Prepared	& Analyzed:	06/26/06			
TIN		1.03	0.036	mg/L	1.00		103	90-110			
QC SAMPLE:	Reference (6F26003-SRM2)					Prepared	& Analyzed:	06/26/06			
TIN		0.868	0.036	mg/L	1.00		86.8	90-110			

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 11 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F21010 - Volatiles										
QC SAMPLE: Calibration Blank (6F21	010-CCB1)				Prepared	& Analyzed	: 06/21/06			
ACROLEIN	ND	0.100	mg/L							
ACRYLONITRILE	ND	0.0100	**							
BENZENE	ND	0.0005	"							
BROMOCHLOROMETHANE	ND	0.0005	**							
BROMODICHLOROMETHANE	ND	0.0005								
BROMOFORM	ND	0.0005	n							
CARBON TETRACHLORIDE	ND	0.0005								
CHLOROBENZENE	ND	0.0005								
CHLORODIBROMOMETHANE	ND	0.0005								
CHLOROETHANE	ND	0.0005	"							
2-CHLOROETHYL VINYL ETHER	ND	0.0005	"							
tert-BUTYLBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	**							
CHLOROMETHANE	ND	0.0005	**							
1,2-DICHLOROBENZENE	ND	0.0005								
1,3-DICHLOROBENZENE	ND	0.0005	"							
1,4-DICHLOROBENZENE	ND	0.0005	H							
1,1-DICHLOROETHANE	ND	0.0005	n							
1,2-DICHLOROETHANE	ND	0.0005								
1,1-DICHLOROETHYLENE	ND	0.0005	"					-		
1,2-DICHLOROPROPANE	ND	0.0005	**							
TRANS-1,3-DICHLOROPROPENE	ND	0.0005	**							
CIS-1,3-DICHLOROPROPENE	ND	0.0005	"							
TRANS-1,2-DICHLOROETHENE	ND	0.0005	n							
CIS-1,2-DICHLOROETHENE	ND	0.0005	**							
ETHYLBENZENE	ND	0.0005								
METHYL BROMIDE	ND	0.0005								
METHYL CHLORIDE	ND	0.0005	"							
METHYLENE CHLORIDE	ND	0.0005	"							
METHYL-TERT-BUTYL ETHER (MTBE)	ND	0.0005								
NAPHTHALENE	ND	0.0005	"							
STYRENE	ND	0.0005	11							
TRICHLOROETHYLENE	ND	0.0005	**							
Surrogate: Dibromofluoromethane	0.005740		"	0.00809		70.9	50-150			
Surrogate: Fluorobenzene	0.009040		n	0.00809		112	50-150			
Surrogate: Chlorobenzene-d5	0.007550		n	ō.00809		93.3	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.005880		"	ō.00809		72.6	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 12 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F21010 - Volatiles										
QC SAMPLE: Calibration Blank (6F2	1010-CCB2)				Prepared	& Analyzed	1: 06/21/06			
ACROLEIN	ND	0.100	mg/L							
ACRYLONITRILE	ND	0.0100								
BENZENE	ND	0.0005	19							
BROMOCHLOROMETHANE	ND	0.0005	"							
BROMODICHLOROMETHANE	ND	0.0005	"							
BROMOFORM	ND	0.0005	**							
CARBON TETRACHLORIDE	ND	0.0005	0							
CHLOROBENZENE	ND	0.0005	"							
CHLORODIBROMOMETHANE	ND	0.0005								
CHLOROETHANE	ND	0.0005	"							
2-CHLOROETHYL VINYL ETHER	ND	0.0005	11							
tert-BUTYLBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	**							
CHLOROMETHANE	ND	0.0005	**							
1,2-DICHLOROBENZENE	ND	0.0005	. "							
1,3-DICHLOROBENZENE	ND	0.0005	**							
1,4-DICHLOROBENZENE	ND	0.0005	"							
1,1-DICHLOROETHANE	ND	0.0005								
1,2-DICHLOROETHANE	ND	0.0005	**							
1,1-DICHLOROETHYLENE	ND	0.0005	"							
1,2-DICHLOROPROPANE	ND	0.0005	.,							
TRANS-1,3-DICHLOROPROPENE	ND	0.0005								
CIS-1,3-DICHLOROPROPENE	ND	0.0005	,							
TRANS-1,2-DICHLOROETHENE	ND	0.0005	.,							
CIS-1,2-DICHLOROETHENE	ND	0.0005	,,							
ETHYLBENZENE	ND	0.0005								
METHYL BROMIDE	ND	0.0005	11							
METHYL CHLORIDE	ND	0.0005	"							
METHYLENE CHLORIDE	ND	0.0005								
METHYL-TERT-BUTYL ETHER (MTBE)	ND	0.0005	0							
NAPHTHALENE	ND	0.0005	**							
STYRENE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	0							
Surrogate: Dibromofluoromethane	0.005230		n	0.00809		64.6	50-150			·
Surrogate: Fluorobenzene	0.007680		"	ō.00809		94.9	50-150			
Surrogate: Chlorobenzene-d5	0.007020		"	ō.00809		86.7	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006080			ō.00809		75.1	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 13 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %F	REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F21010 - Volatiles										
QC SAMPLE: Reference (6F21010-SRM1)				Prepared & Ana	alyzed	: 06/21/06			
BENZENE	0.01473	0.0005	mg/L	0.01619		91.0	50-150			
BROMOCHLOROMETHANE	0.01964	0.0005		0.01619		121	50-150			
BROMODICHLOROMETHANE	0.01811	0.0005	"	0.01619		112	50-150			
BROMOFORM	0.02080	0.0005	11	0.01619		128	50-150			
CARBON TETRACHLORIDE	0.02268	0.0005	"	0.01619		140	50-150			
CHLOROBENZENE	0.02092	0.0005	"	0.01619		129	50-150			
CHLOROETHANE	0.01386	0.0005	"	0.01619		85,6	50-150			
tert-BUTYLBENZENE	0.01995	0.0005	"	0.01619		123	50-150			
CHLOROFORM	0.02083	0.0005	11	0.01619		129	50-150			
CHLOROMETHANE	0.01386	0.0005	"	0.01619		85.6	50-150			
1,2-DICHLOROBENZENE	0.01924	0.0005	"	0.01619		119	50-150			
1,3-DICHLOROBENZENE	0.01925	0.0005	"	0.01619		119	50-150			
1,4-DICHLOROBENZENE	0.01925	0.0005	"	0.01619		119	50-150			
1,1-DICHLOROETHANE	0.01778	0.0005	n	0.01619		110	50-150			
1,2-DICHLOROETHANE	0.01867	0.0005	"	0.01619		115	50-150			
1,2-DICHLOROPROPANE	0.01768	0.0005	"	0.01619		109	50-150			
TRANS-1,3-DICHLOROPROPENE	0.02149	0.0005	n	0.01619		133	50-150			
CIS-1,3-DICHLOROPROPENE	0.01760	0.0005	"	0.01619		109	50-150			
TRANS-1,2-DICHLOROETHENE	0.02069	0.0005	**	0.01619		128	50-150			
CIS-1,2-DICHLOROETHENE	0.01772	0.0005	"	0.01619		109	50-150			
ETHYLBENZENE	0.02308	0.0005	*11	0.01619		143	50-150			
METHYLENE CHLORIDE	0.01450	0.0005	**	0.01619		89.6	50-150			
NAPHTHALENE	0.01297	0.0005	***	0.01619		80.1	50-150			
STYRENE	0.01766	0.0005	ii ii	0.01619		109	50-150			
TRICHLOROETHYLENE	0.01817	0.0005		0.01619		112	50-150			
Surrogate: Dibromofluoromethane	0.007800		"	0.00809		96.4	50-150			
Surrogate: Fluorobenzene	0.005390		"	0.00809		66.6	50-150			
Surrogate: Chlorobenzene-d5	0.007290		"	Õ.00809		90.1	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007550		n	0.00809		93.3	50-150			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 14 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F21010 - Volatiles										
QC SAMPLE: Reference (6F21010-SRM2)					Prepared &	Analyzed	: 06/21/06			
BENZENE	0.01658	0.0005	mg/L	0.01619		102	50-150			
BROMOCHLOROMETHANE	0.02003	0.0005	- "	0.01619		124	50-150			
BROMODICHLOROMETHANE	0.01925	0.0005		0.01619		119	50-150			
BROMOFORM	0.01945	0.0005	**	0.01619		120	50-150			
CARBON TETRACHLORIDE	0.02275	0.0005	"	0.01619		141	50-150			
CHLOROBENZENE	0.01945	0.0005	"	0.01619		120	50-150			
CHLOROETHANE	0.01832	0.0005	"	0.01619		113	50-150			
tert-BUTYLBENZENE	0.02249	0.0005	"	0.01619		139	50-150			
CHLOROFORM	0.01979	0.0005	"	0.01619		122	50-150			
CHLOROMETHANE	0.01832	0.0005	"	0.01619		113	50-150			
1,2-DICHLOROBENZENE	0.02015	0.0005	*	0.01619		124	50-150			
1,3-DICHLOROBENZENE	0.02015	0.0005	**	0.01619		124	50-150			
1,4-DICHLOROBENZENE	0.02015	0.0005	"	0.01619		124	50-150			
1,1-DICHLOROETHANE	0.02133	0.0005	**	0.01619		132	50-150			
1,2-DICHLOROETHANE	0.02076	0.0005	0	0.01619		128	50-150			
1,2-DICHLOROPROPANE	0.01859	0.0005	"	0.01619		115	50-150			
TRANS-1,3-DICHLOROPROPENE	0.01912	0.0005	*	0.01619		118	50-150			
CIS-1,3-DICHLOROPROPENE	0.01823	0.0005	"	0.01619		113	50-150			
TRANS-1,2-DICHLOROETHENE	0.01912	0.0005	n	0.01619		118	50-150			
CIS-1,2-DICHLOROETHENE	0.01555	0.0005	*	0.01619		96.0	50-150			
ETHYLBENZENE	0.02032	0.0005	"	0.01619		126	50-150			
METHYLENE CHLORIDE	0.01407	0.0005	н	0.01619		86.9	50-150			
NAPHTHALENE	0.01581	0.0005	a	0.01619		97.7	50-150			
STYRENE	0.01693	0.0005	"	0.01619		105	50-150			
TRICHLOROETHYLENE	0.02009	0.0005	,,	0.01619		124	50-150			
Surrogate: Dibromofluoromethane	0.007170		"	0.00809		88.6	50-150			
Surrogate: Fluorobenzene	0.007720		"	0.00809		95.4	50-150			
Surrogate: Chlorobenzene-d5	0.006790		"	ō.00809		83.9	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007430		"	0.00809		91.8	50-150			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 15 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F27009 - *** Orga	nic Prep ***									
QC SAMPLE: Calibration Blank (6F.	27009-CCB1)				Prepared:	06/20/06	Analyzed: (06/27/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE ·	ND	0.980	**							
2,4-DINITROTOLUENE	ND	1.96	**							
FLUORANTHENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	25.5		,,	20.0		128	50-150			
Surrogate: Nitrobenzene-D5	19.3		"	20.0		96.5	50-150			
Surrogate: p-terphenyl-D14	20.0		,,	20.0		100	50-150			
QC SAMPLE: Calibration Blank (6F	27009-CCB2)				Prepared:	06/20/06	Analyzed: (06/28/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980								
N-DECANE	ND	0.980	**							
2,4-DINITROTOLUENE	ND	1.96								
FLUORANTHENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	22.6		,,	20.0		113	50-150			
Surrogate: Nitrobenzene-D5	24.6		"	20.0		123	50-150			
Surrogate: p-terphenyl-D14	19.7		"	20.0		98.5	50-150			
QC SAMPLE: Reference (6F27009-S	SRM1)				Prepared:	06/20/06	Analyzed: (06/27/06		
BIS(2-ETHYLHEXYL)PHTHALATE	23.9	0.980	mg/L	25.0		95.6	80-120			
CARBAZOLE	24.2	0.980	**	37.4		64.7	50-150			
N-DECANE	24.0	0.980	14	25.0		96.0	50-150			
2,4-DINITROTOLUENE	24.7	1.96	**	25.0		98.8	80-120			
FLUORANTHENE	24.6	0.980	n	25.0		98.4	80-120			
N-OCTADECANE	24.0	0.980		24.8		96.8	50-150			
Surrogate: 2-Fluorobiphenyl	24.2		"	25.0		96.8	50-150			
Surrogate: Nitrobenzene-D5	24.6		"	25.0		98.4	50-150			
Surrogate: p-terphenyl-D14	24.3		**	25.0		97.2	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 16 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F27009 - *** Organi	c Prep ***								
QC SAMPLE: Reference (6F27009-SR	M2)				Prepared: 06/20/06	Analyzed:	06/28/06		
BIS(2-ETHYLHEXYL)PHTHALATE	25.6	0.980	mg/L	25.0	102	80-120			
CARBAZOLE	24.5	0.980		37.4	65.5	50-150			
N-DECANE	30.4	0.980	"	25.0	122	50-150			
2,4-DINITROTOLUENE	23.2	1.96	"	25.0	92.8	80-120			
FLUORANTHENE	24.8	0.980	"	25.0	99.2	80-120			
N-OCTADECANÉ	27.8	0.980	"	24.8	112	50-150			
Surrogate: 2-Fluorobiphenyl	25.6		п	25.0	102	50-150			
Surrogate: Nitrobenzene-D5	29.2		п	25.0	117	50-150			
Surrogate: p-terphenyl-D14	24.3		"	25.0	97.2	50-150			
BATCH: Batch 6F27010 - *** Organi QC SAMPLE: Calibration Blank (6F27	*				Prepared: 06/20/06	Analyzed:	06/27/06		
PENTACHLOROPHENOL	ND	4.90	mg/L		1 10paica. 00/20/00	7 traiy20d.	00/21/00		
Surrogate: Phenol-d6	30.5		"	40.0	76.2	50-150			
Surrogate: 2,4,6-Tribromophenol	31.4		"	40.0	78.5	50-150			
QC SAMPLE: Calibration Blank (6F27	010-CCB2)	_			Prepared: 06/20/06	Analyzed:	06/28/06		
PENTACHLOROPHENOL	ND	4.90	mg/L						
Surrogate: Phenol-d6	36.1		"	40.0	90.2	50-150			
Surrogate: 2,4,6-Tribromophenol	30.8		"	40.0	77.0	50-150			
QC SAMPLE: Reference (6F27010-SR	M1)			·	Prepared: 06/20/06	Analyzed:	06/27/06		
PENTACHLOROPHENOL	27.2	4.90	mg/L	25.0	109	80-120			
Surrogate: Phenol-d6	21.3		"	25.0	85.2	50-150			
Surrogate: 2,4,6-Tribromophenol	20.3		11	25.0	81.2	50-150			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 17 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F27010 - *** Organic Pr	ер ***									
QC SAMPLE: Reference (6F27010-SRM2)					Prepared:	06/20/06	Analyzed: (06/27/06		
PENTACHLOROPHENOL	25.0	4.90	mg/L	25.0		100	80-120			
Surrogate: Phenol-d6	23.2		"	25.0		92.8	50-150			
Surrogate: 2.4,6-Tribromophenol	20.9		"	25.0		83.6	50-150			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 18 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6F28003 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (6F2	8003-CCB1)				Prepared:	06/20/06	Analyzed: (06/27/06		
CHLORDANE	ND	0.653	mg/L					-		
QC SAMPLE: Calibration Blank (6F2	8003-CCB2)				Prepared:	06/20/06	Analyzed: (06/28/06		
CHLORDANE	ND	0.653	mg/L							
BATCH: Batch 6F28004 - *** Organ	nic Prep ***							. 100.000		
QC SAMPLE: Calibration Blank (6F2	8004-CCB1)				Prepared:	06/20/06	Analyzed: 0	6/28/06		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49	**							
AROCHLOR 1232	ND	0.49	"							
AROCHLOR 1242	ND	0.49	"							
AROCHLOR 1248	ND	0.49	**							
AROCHLOR 1254	ND	0.49	11							
AROCHLOR 1260	ND	0.49	"							
QC SAMPLE: Calibration Blank (6F2	8004-CCB2)				Prepared:	06/20/06	Analyzed: 0	6/28/06	***	
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49	"							
AROCHLOR 1232	ND	0.49	"							
AROCHLOR 1242	ND	0.49	**							
AROCHLOR 1248	ND	0.49	. "							
AROCHLOR 1254	ND	0.49	**							
AROCHLOR 1260	ND	0.49	"							
QC SAMPLE: Reference (6F28004-S	RM1)				Prepared:	06/20/06	Analyzed: 0	6/28/06		
AROCHLOR 1260	1.93	0.49	mg/L	2.00		96.5	50-150			



REPORT DATE:

06/28/06 13:18

REPORT NUMBER:6061908

PAGE: 19 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits		RPD Limit	Notes
BATCH: Batc	h 6F28004 - *** Organic P	rep ***									
QC SAMPLE:	Reference (6F28004-SRM2)					Prepared:	06/20/06	Analyzed	: 06/28/06		
AROCHLOR 1260)	2.87	0.49	mg/L	2.00		144	50-150			
Data Qualifie	rs:										_
Qualifier	Notes										_
QB-01	The method blank contains result, which is negligible a			above the M	IRL; how	ever, conce	entration is	s less than	10% of the	sample	

This report may not be reproduced except in full.



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Cascade General Lian Jewell Source Name Name Address Cascade General Source Address 5555 N. Channel Ave. 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 Facsimile Number 503/247-6050 Batch Information CWTBEmail Address ljewell@vigorindustrial.net Batch Number: Proposed Discharge 450,000 gal Volume:* Actual Discharge Request Date/Time: 6/27/2007 1400 Volume: Sampling Location: Date Proposed: 6/29/2007 Tank-7, BWTP Sampled? YES NO Duration of Discharge: Start: Stop: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: Date of Approval: / /2007 YES or NO Approved By: Wesley McDaniel Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system,

Signature: Date:

or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDI	IST	RY	N	AM	E:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

June, 2007

For Industrial Source Control Division Use Only

Org 2159

Date Postmarked/Received

Date Entered

Entered By:

Comments:

SAMPLE DATE	POINT OF C	COMPLIANCE	SA	MPLE TYPE			
6/13/07	CV	VT2B		GRAB			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664				N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	10.9 mg/I		2.0	110 mg/L	N/A	
Cyanide	SM 4500	ND		0.0030	1.2 mg/L	N/A	
Sulfide	EPA 376.1	2.0 mg/L		1.0	4.0 mg/L	N/A	
рН	EPA 150.1	8.88 SU	10		5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND		0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND		0.00770	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND		0.0100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND		0.00770	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND		0.00770	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND		0.00513	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND		0.0005	0.2 mg/L	N/A	
Chloroform	EPA 624	0.0032 mg/	L	0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND		0.00770	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND		0.00770	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND		0.00770	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND		0.00770	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND		0.0385	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	0.0031 mg/	L	0.0005	0.2 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF COMPLIANCE CWT2B		SAMPLE T	SAMPLE TYPE			
4/06/2007			COMPOSITE				
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		MDL LIMITS DAILY MONTHLY		COMMENTS	
Antimony (Total)	EPA 200.7	ND	0.02	.0	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	0.034 mg/I	0.01	0	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.041 mg/I	0.00	2	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	ND	0.00	13	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	ND	0.00	15	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.01	0	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	ND	0.00	5	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	ND	0.00	15	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND	0.000	005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	ND	0.00	15	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	ND	0.02	.0	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	ND	0.1	0	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND	0.01	0	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.04	0	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	ND	0.00	13	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:
------------	-------



CLIENT: Cascade General

ATTN: Bob Collinson P.O. Box 4367

Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test -A Subcat

В

PROJECT NUMBER: 1-000-0001-100

PHONE: (503) 247-1634

FAX: (503) 247-1680

SUBMITTED: 06/14/07 08:40

REPORT DATE: 06/26/07 10:50 REPORT NUMBER: 7061403

PAGE: 1 OF 17

CISAMPLE	CLIENTS ID#		DATE		MATRIX			
7061403-01	T-7-06-13-07		06/13	3/2007 1313	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
7061403-01	SAMPLE ID: T-7-0	6-13-07						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	ND	mg/L	0.0030	DAU	06/18/2007 15:44	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	10.9	mg/L	2.0	JRW	06/25/2007 12:51	
PH	EPA 150.1/9040	рН	8.88	SU		DAŲ	06/14/2007 13:11	
	<u>. </u>	TEMPERATURE (C)	18.7	SU				
SULFIDE	EPA 376.1	SULFIDE	2.0	mg/L	1.0	DAU	06/19/2007 08:45	
Total Mercury b	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEL	06/19/2007 15:33	
Total Metals by	Inductively Coupled	I Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	KEL	06/22/2007 07:31	
ARSENIC - ICP		ARSENIC	0.034	mg/L	0.010	KEL	06/22/2007 07:31	
BARIUM - ICP		BARIUM	0.041	mg/L	0.002	KEL	06/22/2007 14:31	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	06/22/2007 07:31	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	KEL	06/22/2007 07:31	
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	06/22/2007 07:31	
COPPER - ICP		COPPER	ND	mg/L	0.005	KEL	06/20/2007 10:17	
LEAD - ICP		LEAD	ND	mg/L	0.005	KEL	06/20/2007 10:17	
MOLYBDENUM - ICP		MOLYBDENUM	ND	mg/L	0.005	KEL	06/20/2007 10:17	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	KEL	06/20/2007 10:17	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	06/22/2007 07:31	
SILVER - ICP		SILVER	ND	mg/L	0.010	KEL	06/22/2007 14:31	
TIN - ICP		TIN	ND	mg/L	0.040	KEL	06/25/2007 16:08	
ZINC - ICP		ZINC	ND	mg/L	0.003	KEL	06/20/2007 10:17	
Volatile Organic	s by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	JRW	06/22/2007 14:12	
		CHLOROBENZENE	ND	mg/L	0.0005			
		CHLOROFORM	0.0032	mg/L	0.0005			

This report may not be reproduced except in full.

Authorized for Release By:

Charles Morrow - Laboratory Director

Charles Morrow

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE:	06/26/07 10:50	REPORT N	IUMBER:7061	403			PAGE: 2 OF 1		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES	
7061403-01	SAMPLE ID: T-7-06-1	3-07							
Volatile Organics	by Gas Chromatogra	aphy/Mass Spectroscopy							
VOC 624 Extended	EPA 624	1,2-DICHLOROETHANE	ND	mg/L	0.0005	JRW	06/22/2007 14:12		
		TRICHLOROETHYLENE	0.0031	mg/L	0.0005				
		Surrogate: Dibromofluoromethane	84.7 %	%RECOVERY	50-150				
		Surrogate: Fluorobenzene	82.1 %	%RECOVERY	50-150				
		Surrogate: Chlorobenzene-d5	113 %	%RECOVERY	50-150				
		Surrogate: 1,4-Dichlorobenzene-d4	87.3 %	%RECOVERY	50-150				
Semi-Volatile Org	anics by Gas Chrom	natography/Mass Spectroscopy							
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0385	DM	06/25/2007 13:01		
		Surrogate: Phenol-d6	97.5 %	%RECOVERY	50-150				
		Surrogate: 2,4,6-Tribromophenol	87.5 %	%RECOVERY	50-150	•			
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.00770	DM	06/25/2007 13:01		
		CARBAZOLE	ND	mg/L	0.00770				
		N-DECANE	ND	mg/L	0.00770				
		2,4-DINITROTOLUENE	ND	mg/L	0.00770				
		FLUORANTHENE	ND	mg/L	0.00770				
		NITROBENZENE	ND	mg/L	0.00770				
		N-OCTADECANE	ND	mg/L	0.00770				
		Surrogate: 2-Fluorobiphenyl	73.2 %	%RECOVERY	50-150				
		Surrogate: Nitrobenzene-D5	119 %	%RECOVERY	50-150				
		Surrogate: p-terphenyl-D14	97.8 %	%RECOVERY	50-150				
Semi-Volatile Org	anics by Gas Chrom	natography/ECD							
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0038	DM	06/25/2007 16:56		
		AROCHLOR 1221	ND	mg/L	0.0038				
		AROCHLOR 1232	ND	mg/L	0.0038				
•		AROCHLOR 1242	ND	mg/L	0.0038				
		AROCHLOR 1248	ND	mg/L	0.0038				
		AROCHLOR 1254	ND	mg/L	0.0038				
		AROCHLOR 1260	ND	mg/L	0.0038				
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00513	DM	06/25/2007 15:05		
		ALPHA-CHLORDANE	ND	mg/L	0.00513				
		GAMMA-CHLORDANE	ND	mg/L	0.00513				

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 3 OF 17

General Bench Analysis - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7F14013 - General Prepa	ration									
QC SAMPLE:	Duplicate (7F14013-DUP1)			Source: 706	1403-01	Prepared 8	& Analyze	1: 06/14/07			
рН		8.89		SU		8.88			0.113	10	
TEMPERATURE	(C)	18.7		"		18.7			0.00	200	
QC SAMPLE:	Reference (7F14013-SRM1)					Prepared 8	& Analyzed	1: 06/14/07			
pН		5.02		SU	5.00		100	97.5-102			
QC SAMPLE:	Reference (7F14013-SRM2)					Prepared 8	& Analyzed	1: 06/14/07			
pН		8.04		SU	8.00		100	97.5-102			
BATCH: Batc	:h 7F18017 - General Prepa	ration									
QC SAMPLE:	Blank (7F18017-BLK1)					Prepared 8	& Analyzed	i: 06/18/07			
CYANIDE, TOTAL	L	ND	0.0030	mg/L							
QC SAMPLE:	Duplicate (7F18017-DUP1)			Source: 706	1405-01	Prepared 8	& Analyzed	i: 06/18/07			
CYANIDE, TOTAL	L	ND	0.0030	mg/L		ND			,	20	
QC SAMPLE:	Reference (7F18017-SRM1)					Prepared 8	& Analyzed	i: 06/18/07			
CYANIDE, TOTAL		0.0856	0.0030	mg/L	0.0800		107	90-110			
BATCH: Batc	h 7F22021 - Water Extract	ion									
QC SAMPLE:	Blank (7F22021-BLK1)					Prepared 8	& Analyzed	d: 06/22/07			
NONPOLAR OIL	& GREASE	ND	2.0	mg/L							
QC SAMPLE:	LCS (7F22021-BS1)					Prepared:	06/22/07	Analyzed: 06/	/25/07		
NONPOLAR OIL	& GREASE	22.4	2.0	mg/L	22.1		101	66-114			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 4 OF 17

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Sourc Level Resul		%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F22021 - Water	Extraction							. <u>-</u>	
QC SAMPLE: LCS Dup (7F22021-E	BSD1)			Prepar	ed: 06/22/07	Analyzed: (06/25/07		
NONPOLAR OIL & GREASE	19.2	2.0	mg/L	22.1	86.9	66-114	15.4	24	

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 5 OF 17

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7F19011 - ***Metals Pre	p***									
QC SAMPLE:	Blank (7F19011-BLK1)					Prepared a	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7F19011	-CCB1)				Prepared a	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7F19011	-CCB2)				Prepared 8	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7F19011	-CCB3)	*****			Prepared 8	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7F19011	-CCB4)				Prepared 8	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7F19011					Prepared 8	& Analyzed:	06/19/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (7F19011-SRM1)					Prepared 8	& Analyzed:				
MERCURY		0.00022	0.000050	mg/L	0.00020		110	90-110			
QC SAMPLE:	Reference (7F19011-SRM2)					Prepared 8	& Analyzed:				
MERCURY		0.00022	0.000050	mg/L	0.00020		110	90-110			
QC SAMPLE:	Reference (7F19011-SRM3)	·- · · · · · · · · · · · · · · · · · ·				Prepared 8	& Analyzed:				
MERCURY		0.00022	0.000050	mg/L	0.00020		110	90-110			
QC SAMPLE:	Reference (7F19011-SRM4)				 -	Prepared 8	& Analyzed:				
MERCURY		0.00020	0.000050	mg/L	0.00020		100	90-110			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 6 OF 17

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 7F20004 - ***Metals Pre	p***									
QC SAMPLE:	Blank (7F20004-BLK1)					Prepared 8	& Analyzed	: 06/20/07			
COPPER		ND	0.0009	mg/L		<u>'</u>					
LEAD		ND	0.0009	٠,							
MOLYBDENUM		ND	0.004	н							
NICKEL		ND	0.018	H							
ZINC		ND	0.0009	**							
QC SAMPLE:	Calibration Blank (7F20004	-CCB1)				Prepared 8	& Analyzed	: 06/20/07			
COPPER	·	, ND	0.004	mg/L							
LEAD		ND	0.004	"							
MOLYBDENUM		ND	0.004	"							
NICKEL		ND	0.018	**							
ZINĊ		ND	0.003	•							
QC SAMPLE:	Calibration Blank (7F20004	-CCB2)				Prepared 8	& Analyzed	: 06/20/07			
COPPER	·	ND	0.004	mg/L							
LEAD		ND	0.004	"							
MOLYBDENUM		ND	0.004	"							
NICKEL		ND	0.018	**							
ZINC		ND	0.003	**							
QC SAMPLE:	Calibration Blank (7F20004	-CCB3)				Prepared 8	& Analyzed	: 06/20/07			
COPPER		ND	0.004	mg/L		,					
LEAD		ND	0.004	"							
MOLYBDENUM		ND	0.004	**							
NICKEL		ND	0.018	"							
ZINC		ND	0.003								
QC SAMPLE:	Reference (7F20004-SRM1))				Prepared 8	& Analyzed	: 06/20/07			
COPPER		1.04	0.004	mg/L	1.00		104	85-115			
LEAD		0.997	0.004	"	1.00		99.7	85-115			
MOLYBDENUM		1.02	0.004	н	1.00		102	85-115			
NICKEL		1.05	0.018	n	1.00		105	85-115			
ZINC		1.05	0.003	"	1.00		105	85-115	•		

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 7 OF 17

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 7F20004 - ***Metals Prep)***									
QC SAMPLE:	Reference (7F20004-SRM2)					Prepared 8	Analyzed	1: 06/20/07			
COPPER		1.02	0.004	mg/L	1.00		102	85-115			
LEAD		0.964	0.004	"	1.00		96.4	85-115			
MOLYBDENUM		1.02	0.004	"	1.00		102	85-115			
NICKEL		1.01	0.018	"	1.00		101	85-115			
ZINC		0.964	0.003	"	1.00		96.4	85-115			
QC SAMPLE:	Reference (7F20004-SRM3)		•			Prepared 8	Analyzed	1: 06/20/07			
COPPER		1.01	0.004	mg/L	1.00		101	85-115			
LEAD		0.945	0.004	"	1.00	•	94.5	85-115			
MOLYBDENUM		0.999	0.004	0	1.00		99.9	85-115			
NICKEL		0.980	0.018	n	1.00		98.0	85-115			
ZINC		0.940	0.003	**	1.00		94.0	85-115			
BATCH: Bato	h 7F22001 - ***Metals Prep)***									
QC SAMPLE:	Blank (7F22001-BLK1)					Prepared 8	Analyzed	: 06/22/07			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009	"							
CADMIUM		ND	0.003	п							
CHROMIUM		ND	0.004								
COBALT		ND	0.0090	n							
SELENIUM		ND	0.090	**							
QC SAMPLE:	Calibration Blank (7F22001-	CCB1)				Prepared 8	Analyzed	: 06/22/07			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009	- "							
CADMIUM		ND	0.003	11							
CHROMIUM		ND	0.004	**							
COBALT		ND	0.0090	"							
SELENIUM		ND	0.090	,,							

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 8 OF 17

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bate	ch 7F22001 - ***Metals P	rep***									5 to 2 to 10 pm
QC SAMPLE:	Calibration Blank (7F2200)1-CCB2)				Prepared	& Analyzed	: 06/22/07			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009	n							
CADMIUM		ND	0.003	n n							
CHROMIUM		ND	0.004	· ·							
COBALT		ND	0.0090	n							
SELENIUM		ND	0.090	0							
QC SAMPLE:	Reference (7F22001-SRM	1)				Prepared	& Analyzed	: 06/22/07			
ANTIMONY		0.973	0.018	mg/L	1.00		97.3	85-115			
ARSENIC		0.998	0.009	"	1.00		99.8	85-115			
CADMIUM		1.00	0.003		1.00		100	85-115			
CHROMIUM		1.11	0.004	**	1.00		111	85-115			
COBALT		1.00	0.0090		1.00		100	85-115			
SELENIUM		1.01	0.090	"	1.00		101	85-115			
QC SAMPLE:	Reference (7F22001-SRM	2)				Prepared	& Analyzed	: 06/22/07			
ANTIMONY		0.986	0.018	mg/L	1.00		98.6	85-115			
ARSENIC		0.987	0.009	**	1.00		98.7	85-115			
CADMIUM		0.955	0.003	**	1.00		95.5	85-115			
CHROMIUM		1.01	0.004	"	1.00		101	85-115			
COBALT		0.970	0.0090	**	1.00		97.0	85-115			
SELENIUM		1.00	0.090		1.00		100	85-115			
BATCH: Bato	ch 7F22016 - ***Metals P	rep***									
QC SAMPLE:	Blank (7F22016-BLK1)					Prepared	& Analyzed	: 06/22/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 9 OF 17

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD .	RPD Limit	Notes
BATCH: Batc	h 7F22016 - ***Metals Prep)***			_						
QC SAMPLE:	Calibration Blank (7F22016-	CCB1)				Prepared a	& Analyzed	: 06/22/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							
QC SAMPLE:	Calibration Blank (7F22016-6	CCB2)				Prepared 8	& Analyzed	: 06/22/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	11							
QC SAMPLE:	Reference (7F22016-SRM1)					Prepared 8	& Analyzed	: 06/22/07			
BARIUM		1.06	0.002	mg/L	1.00		106	85-115			
SILVER		0.452	0.009		0.500		90.4	85-115			
QC SAMPLE:	Reference (7F22016-SRM2)				_	Prepared 8	& Analyzed	: 06/22/07			
BARIUM		1.11	0.002	mg/L	1.00		111	85-115			
SILVER		0.497	0.009	"	0.500		99.4	85-115			
BATCH: Batc	h 7F25018 - ***Metals Prep	***									
QC SAMPLE:	Blank (7F25018-BLK1)				_	Prepared 8	& Analyzed	: 06/25/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7F25018-0	CCB1)				Prepared 8	& Analyzed	: 06/25/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7F25018-0	CCB2)				Prepared 8	& Analyzed	: 06/25/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (7F25018-SRM1)					Prepared 8	& Analyzed	: 06/25/07			
TIN		1.03	0.036	mg/L	1.00		103	90-110			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 10 OF 17

Total Metals by Inductively	[,] Coupled Plasma -	Quality Control
-----------------------------	-------------------------------	------------------------

Batch/Sample/Analyte	Result	Detection Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F25018 - ***Me	tals Prep***									
QC SAMPLE: Reference (7F2501	8-SRM2)				Prepared	& Analyzed	1: 06/25/07			
TIN	1.03	0.036	ma/L	1.00		103	90-110			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 11 OF 17

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F22014 - Volatiles										
QC SAMPLE: Calibration Blank (7F220	14-CCB1)				Prepared: 0	6/15/07	Analyzed: (06/22/07		•
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	н							
CHLOROFORM	ND	0.0005								
1,2-DICHLOROETHANE	ND	0.0005	,							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.006420		"	0.00809		79.3	50-150			
Surrogate: Fluorobenzene	0.008220		"	ō.00809		102	50-150			
Surrogate: Chlorobenzene-d5	0.01174		"	0.00809		145	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007960		"	0.00809		98.3	50-150			
QC SAMPLE: Calibration Blank (7F220	14-CCB2)				Prepared: 0	6/15/07	Analyzed: (06/22/07		
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	**							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Dibromofluoromethane	0.007710		и	0.00809		95.2	50-150			
Surrogate: Fluorobenzene	0.007620		"	0.00809		94.1	50-150			
Surrogate: Chlorobenzene-d5	0.01190		"	ō.00809		147	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008400		"	Õ.00809		104	50-150			
QC SAMPLE: Calibration Blank (7F220	14-CCB3)				Prepared: 0	6/20/07	Analyzed: (06/22/07		
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	n							
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Dibromofluoromethane	0.007700		п	0.00809		95.1	50-150			
Surrogate: Fluorobenzene	0.005300		,,	ō.00809		65.5	50-150			
Surrogate: Chlorobenzene-d5	0.008950		"	ō.00809		111	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007560		,,	ō.00809		93.4	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 12 OF 17

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F22014 - Volatiles	-									
QC SAMPLE: Calibration Blank (7F2	2014-CCB4)				Prepared:	06/20/07	Analyzed: (06/22/07		
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	n							
CHLOROFORM	ND	0.0005								
1,2-DICHLOROETHANE	ND	0.0005	**							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.006210		,,	0.00809		76.7	50-150			
Surrogate: Fluorobenzene	0.008300		n	0.00809		103	50-150			
Surrogate: Chlorobenzene-d5	0.009390		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ō.00809		116	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007460		"	ō.00809		92.2	50-150			
QC SAMPLE: Reference (7F22014-S	RM1)				Prepared:	06/15/07	Analyzed: (06/22/07		
CHLOROBENZENE	0.01138	0.0005	mg/L	0.01000		114	0-200			
CHLOROFORM	0.009360	0.0005		0.01000		93.6	0-200			
1,2-DICHLOROETHANE	0.009770	0.0005	**	0.01000		97.7	0-200			
TRICHLOROETHYLENE	0.009450	0.0005	"	0.01000		94.5	0-200			
Surrogate: Dibromofluoromethane	0.007810		"	0.00809		96.5	50-150			
Surrogate: Fluorobenzene	0.007250		"	ō.00809		89.6	50-150			
Surrogate: Chlorobenzene-d5	0.009080		"	0.00809		112	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008280		"	ō.00809		102	50-150			
QC SAMPLE: Reference (7F22014-S	RM2)				Prepared:	06/15/07	Analyzed: (06/22/07		
CHLOROBENZENE	0.01149	0.0005	mg/L	0.01000		115	0-200			
CHLOROFORM	0.009400	0.0005	"	0.01000		94.0	0-200			
1,2-DICHLOROETHANE	0.01024	0.0005	n	0.01000		102	0-200			
TRICHLOROETHYLENE	0.008950	0.0005		0.01000		89.5	0-200			
Surrogate: Dibromofluoromethane	0.007700		"	0.00809		95.1	50-150			
Surrogate: Fluorobenzene	0.006790		n	ō.00809		83.9	50-150			
Surrogate: Chlorobenzene-d5	0.01039		"	ō.00809		128	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008900		"	0.00809		110	50-150			

This report may not be reproduced except in full.



REPORT DATE: 06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 13 OF 17

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F22014 - Volatile	es									
QC SAMPLE: Reference (7F22014-	SRM3)				Prepared: (06/20/07	Analyzed: (06/22/07		
CHLOROBENZENE	0.01023	0.0005	mg/L	0.01000		102	0-200			
CHLOROFORM	0.009110	0.0005	**	0.01000		91.1	0-200			
1,2-DICHLOROETHANE	0.009740	0.0005	**	0.01000		97.4	0-200			
TRICHLOROETHYLENE	0.008320	0.0005	H	0.01000		83.2	0-200			
Surrogate: Dibromofluoromethane	0,007730		"	0.00809		95.5	50-150			
Surrogate: Fluorobenzene	0.007220		"	Õ.00809		89.2	50-150			
Surrogate: Chlorobenzene-d5	0.008150		"	0.00809		101	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008750		"	0.00809		108	50-150			
QC SAMPLE: Reference (7F22014-	SRM4)				Prepared: 0	06/20/07	Analyzed: (06/22/07		
CHLOROBENZENE	0.01134	0.0005	mg/L	0.01000		113	0-200			
CHLOROFORM	0.007880	0.0005	"	0.01000		78.8	0-200			
1,2-DICHLOROETHANE	0.009130	0.0005	n	0.01000		91.3	0-200			
TRICHLOROETHYLENE	0.01005	0.0005	n	0.01000		100	0-200			
Surrogate: Dibromofluoromethane	0.006520		"	0.00809		80.5	50-150			
Surrogate: Fluorobenzene	0.007070		"	0.00809		87.3	50-150			
Surrogate: Chlorobenzene-d5	0.008570		"	0.00809		106	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007940		"	0.00809		98.1	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 14 OF 17

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F22024 - *** Organ	ic Prep ***									
QC SAMPLE: Calibration Blank (7F2)	2024-CCB1)				Prepared: 06	6/15/07	Analyzed:	06/25/07		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	34.6			40.0		86.5	50-150			
Surrogate: 2,4,6-Tribromophenol	31.8			40.0		79.5	50-150			
QC SAMPLE: Calibration Blank (7F2)	2024-CCB2)				Prepared: 06	6/15/07	Analyzed:	06/25/07		
PENTACHLOROPHENOL	ND	4.90	mg/L			J				*******
Surrogate: Phenol-d6	37.7			40.0		94.2	50-150		-	
Surrogate: 2,4,6-Tribromophenol	36.1		"	40.0		90.2	50-150			
QC SAMPLE: Reference (7F22024-SF	RM1)				Prepared: 06	3/15/07	Analvzed:	06/25/07		
PENTACHLOROPHENOL	10.3	4.90	mg/L	10.0	, .opa.oa. o.	103	80-120			
Surrogate: Phenol-d6	10.8		,	10.0		108	50-150			
Surrogate: 2,4,6-Tribromophenol	8.33		"	10.0		. 83.3	50-150			
QC SAMPLE: Reference (7F22024-SF	RM2)				Prepared: 06	6/15/07	Analyzed:	06/25/07		
PENTACHLOROPHENOL	8.92	4.90	mg/L	10.0		89.2	80-120	-0.4.	Auto-Abrillo	
Surrogate: Phenol-d6	9.55		п	10.0		95.5	50-150			
Surrogate: 2,4,6-Tribromophenol	9.06		п	10.0		90.6	50-150			
BATCH: Batch 7F25005 - *** Organ	ic Prep ***									
					5 100	2440407		00/05/07		
QC SAMPLE: Calibration Blank (7F2)		0.980			Prepared: 06	5/18/07	Anaiyzeo:	06/25/07		
BIS(2-ETHYLHEXYL)PHTHALATE CARBAZOLE	ND ND	0.980	mg/L "							
N-DECANE	ND	0.980								
2.4-DINITROTOLUENE	ND	0.980	0							
FLUORANTHENE	ND	0.980	"							
NITROBENZENE	ND	0.980								
N-OCTADECANE	. ND	0.980								
Surrogate: 2-Fluorobiphenyl	20.2		n	20.0	•	101	50-150			
Surrogate: Nitrobenzene-D5	21.8		,	20.0		109	50-150			
Surrogate: p-terphenyl-D14	23.6		п	20.0		118	50-150			

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 15 OF 17

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch/Sample/Analyte Result		Units	-Eevei	——— –	/oREC				Notes
BATCH: Batch 7F25005 - *** Organic Prep ***			_						
QC SAMPLE: Calibration Blank (7F25005-CCB2)				Prepared: 06	6/18/07	Analyzed: 0	6/25/07		
BIS(2-ETHYLHEXYL)PHTHALATE 'ND	0.980	mg/L							
CARBAZOLE ND	0.980								
N-DECANE ND	0.980								
2,4-DINITROTOLUENE ND	0.980	"							
FLUORANTHENE ND	0.980								
NITROBENZENE ND	0.980	**							
N-OCTADECANE ND	0.980	"							
Surrogate: 2-Fluorobiphenyl 21.1		"	20.0		106	50-150			
Surrogate: Nitrobenzene-D5 25.2		"	20.0		126	50-150			
Surrogate: p-terphenyl-D14 24.3		"	20.0		122	50-150			
QC SAMPLE: Reference (7F25005-SRM1)				Prepared: 06	6/18/07	Analyzed: 0	6/25/07		
BIS(2-ETHYLHEXYL)PHTHALATE 10.8	0.980	mg/L	10.0		108	80-120			
CARBAZOLE 20.3	0.980	"	20.0		102	50-150			
N-DECANE 10.2	0.980	11	10.0		102	50-150			
2,4-DINITROTOLUENE 10.7	0.980	"	10.0		107	80-120			
FLUORANTHENE 10.2	0.980	"	10.0		102	80-120			
NITROBENZENE 11.6	0.980	11	10.0		116	80-120			
N-OCTADECANE 10.1	0.980	"	9.94		102	50-150			
Surrogate: 2-Fluorobiphenyl 9.98		n	10.0		99.8	50-150			
Surrogate: Nitrobenzene-D5 11.3		"	10.0		113	50-150			
Surrogate: p-terphenyl-D14 9.38		n	10.0		93.8	50-150			
QC SAMPLE: Reference (7F25005-SRM2)				Prepared: 06	6/18/07	Analyzed: 0	6/25/07		
BIS(2-ETHYLHEXYL)PHTHALATE 9.57	0.980	mg/L	10.0		95.7	80-120			
CARBAZOLE 14.3	0.980	,,	20.0		71.5	50-150			
N-DECANE 9.78	0.980	n	10.0		97.8	50-150		•	
2,4-DINITROTOLUENE 10.0	0.980	**	10.0		100	80-120			
FLUORANTHENE 10.6	0.980	12	10.0		106	80-120			
NITROBENZENE 12.0	0.980		10.0		120	80-120			
N-OCTADECANE 9.59	0.980	"	9.94		96.5	50-150			
Surrogate: 2-Fluorobiphenyl 9.27		н	10.0		92.7	50-150			
Surrogate: Nitrobenzene-D5 10.7		,,	10.0		107	50-150			
Surrogate: p-terphenyl-D14 10.5		"	10.0		105	50-150			

This report may not be reproduced except in full.



REPORT DATE: 06/26/07 10:50 REPORT NUMBER:7061403 PAGE: 16 OF 17

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F25014 - *** Organic	Prep ***									
QC SAMPLE: Calibration Blank (7F250	14-CCB1)				Prepared:	06/18/07	Analyzed: (06/25/07		
CHLORDANE	ND	0.653	mg/L							
ALPHA-CHLORDANE	ND	0.653								
GAMMA-CHLORDANE	ND	0.653	11							
QC SAMPLE: Calibration Blank (7F250	14-CCB2)				Prepared:	06/18/07	Analyzed: 0	06/25/07		
CHLORDANE	ND	0.653	mg/L		-					
ALPHA-CHLORDANE	ND	0.653	"							
GAMMA-CHLORDANE	ND	0.653								
QC SAMPLE: Reference (7F25014-SRM	<i>1</i> 11)				Prepared:	: 06/18/07	Analyzed: (06/25/07		
ALPHA-CHLORDANE	4.59	0.653	mg/L	5.00		91.8	50-150			
GAMMA-CHLORDANE	4.14	0.653	"	5.00		82.8	50-150			
QC SAMPLE: Reference (7F25014-SRM	/1 2)				Prepared:	: 06/18/07	Analyzed: (06/25/07		
ALPHA-CHLORDANE	4.42	0.653	mg/L	5.00		88.4	50-150			
GAMMA-CHLORDANE	3.87	0.653		5.00		77.4	50-150			
BATCH: Batch 7F25020 - *** Organic	: Prep ***									
QC SAMPLE: Calibration Blank (7F250	20-CCB1)				Prepared:	: 06/18/07	Analyzed: 0	06/25/07		
AROCHLOR 1016	ND	0.49	mg/L				· · · · · · · · · · · · · · · · · · ·		*******	
AROCHLOR 1221	ND	0.49	11							
AROCHLOR 1232	ND	0.49	**							
AROCHLOR 1242	ND	0.49	n							
AROCHLOR 1248	ND	0.49	0							
AROCHLOR 1254	ND	0.49	"							
AROCHLOR 1260	ND	0.49	n							

This report may not be reproduced except in full.



REPORT DATE:

06/26/07 10:50

REPORT NUMBER:7061403

PAGE: 17 OF 17

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7F25020 - *** C	rganic Prep ***		· · · · · · · · · · · · · · · · · · ·							
QC SAMPLE: Calibration Blank	(7F25020-CCB2)				Prepared:	06/18/07	Analyzed: 0	6/25/07		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49								
AROCHLOR 1232	ND	0.49	**							
AROCHLOR 1242	ND	0.49								
AROCHLOR 1248	ND	0.49	"							
AROCHLOR 1254	ND	0.49	п							
AROCHLOR 1260	ND	0.49	п							
QC SAMPLE: Reference (7F250	20-SRM1)				Prepared:	06/18/07	Analyzed: 0	6/25/07		
AROCHLOR 1242	1.64	0.49	mg/L	2.50		65.6	50-150			
QC SAMPLE: Reference (7F250	20-SRM2)				Prepared:	06/18/07	Analyzed: 0	6/25/07		
AROCHLOR 1242	1.95	0.49	mg/L	2.50		78.0	50-150			

This report may not be reproduced except in full.



Source Name

Waste Generator Information



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Orego	n 97203-5452	Dean Marriott, Director	Dan Saltzman,	Commissioner

BATCH DISCHARGE REQUEST FORM

Permit Contact

Information

Cascade General Name Charles Isted

Company Name Cascade General

Source Address 5555 N. Channel Ave. Address 5555 N. Channel Ave Portland, OR

97217 Portland, OR 97217

Telephone Number 503/247-1806

Facsimile Number 503/247-6050

Batch Information CWT A Email Address ljewell@vigorindustrial.net

Batch Number: Proposed Discharge 60,000 gal

Volume:*

Request Date/Time: 6/27/08 12:40 P.M. Actual Discharge Volume:

Date Proposed: 6/27/2008 Sampling Location: T-7, BWTP

Duration of Discharge: Start: 6/30/2008 Stop: 7/2/2008 Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-A

Discharge flow will be stopped if heavy rain develops. Flow will be held below

Are the analysis sheets, QA/QC and chain of custody attached?

YES or NO (circle one)

City Use Only

Batch discharge approval: YES or NO Date of Approval: / /2008

Approved By: Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

June 2008

Date Postmarked/Received	Date Entered	
	Entered By:	
omments:		
		700

Dry Dock Treatment Plant (CWT - A)

SAMPLE DATE	POINT OF O	OMPLIANCE	S/	MPLE TYPE	Accounts of the second of the		
6/11/08	CV	VT2A	(COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORT CONCENTR	The transfer of the state of th	MDL	LIN DAH Y	MITS MONTHLY	CO
Antimony	EPA 200.8	ND	mg/L	0.00100 mg/L	0.249 mg/L	0.206 mg/L	
Arsenic (Total)	EPA 200.8	0.00411	mg/L	0.00100 mg/L	0.162 mg/L	0.104 mg/L	
Cadmium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.474 mg/L	0.0962 mg/L	
Chromium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	5.0 mg/L-	3.07 mg/L	
Cobalt (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.192 mg/L	0.124 mg/L	
Copper (Total)	EPA 200.8	0.0519	mg/L	0.00500 mg/L	3.7 mg/L	1.06 mg/L	
Lead (Total)	EPA 200.8	0.00188	mg/L	0.00100 mg/L	0.7 mg/L	0.283 mg/L	
Mercury (Total)	EPA 245.1	ND	mg/L	0.0002 mg/L	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.8	0.00674	mg/L	0.00200 mg/L	1.4 mg/L	2.09 mg/L	
Nickel (Total)	EPA 200.8	0.00987	mg/L	0.00100 mg/L	2.8 mg/L	1.45 mg/L	1 tu 10
Selenium (Total)	EPA 200.8	ND	mg/L	0.00500 mg/L	0.6 mg/L	0.408 mg/L	
Silver (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.120 mg/L	0.0351 mg/L	
Tin (Total)	EPA 200.7	ND	mg/L	0.0131 mg/L	0.409 mg/L	0.120 mg/L	
Titanium (Total)	EPA 200.7	0.0012	mg/L	0.00102 mg/L	0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.218 mg/L	0.0662 mg/L	
Zinc (Total)	EPA 200.8	0.0837	mg/L	0.00500 mg/L	2.87 mg/L	0.641 mg/L	

SAMPLE DATE	POINT OF 6	COMPLIANCE	SA	AMPLE	TYPE :			
6/11/08	CV	VT2A		GRAE	3			
PARAMETER	ANALYSIS METHOD	REPOR CONCENTE		MI	DL	LI DAILY	MITS MONTHEY	CON
HEM Oil & Grease (Total) 1	EPA 1664	11.6	mg/L	4.76	mg/L	N/A	N/A	A CONTRACTOR OF THE CONTRACTOR
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT	4.76	mg/L	4.76	mg/L	110 mg/L	N/A	Local Limit
Cyanide (Total)	EPA 335.2	ND	mg/L	0.0015	mg/L	I.2 mg/L	178 mg/L	or and a second
рН	EPA 150.1	10.0	pH units			5.0 - 11.5	N/A	Local Limit

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fire and imprisonment for knowing violations.

Signature:

Date: 6/27/08

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

06/27/08 12:01

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ION	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-17-06-11-08 Sub Cat 'A'	A806100-01	Water	06/11/08 12:30	06/11/08 15:04

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 2 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

ANALYTICAL SAMPLE RESULTS

		Purgea	ble Organi	Compounds by	EPA 624			
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
-17-06-11-08 Sub Cat 'A' (A806	3100-01)		Matrix: W	ater				
Acrylonitrile	ND		0.00100	mg/L	1	06/12/08 11:52	EPA 624	
Chlorobenzene	ND		0.000500	n	r r	n	n	
Chloroform	ND		0.00100	R	n	1)	н	
1,2-Dichloroethane (EDC)	ND		0.000500	H		U	n	
Trichloroethene (TCE)	ND		0,000500	11	n	lt.	11	
Surrogate: Dibromofluorometh	ane (Surr)	Reco	very: 101 %	Limits: 80-120 %	· ,	ħ	n	
1,4-Difluorobenzene	(Surr)		101 %	Limits: 80-120 %	10	h	13	
Toluene-d8 (Surr)	. ,		95 %	Limits: 80-120 %	v	4	19	
4-Bromofluorobenza	ene (Surr)		104%	Limits: 80-120 %		n	. 0	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

06/27/08 12:01

ANALYTICAL SAMPLE RESULTS

	Semivolatil	e Organic	Compoun	ds by EPA 625 M	lodified (S	SIM Analysis)		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-17-06-11-08 Sub Cat 'A' (A806	3100-01)		Matrix: W	ater				R-04
Bis(2-ethylhexyl)phthalate	ND		0.125	mg/L	100	06/16/08 16:50	EPA 625 SIM	
Carbazole	ИD		0.0100	π	,,	ıı	11	
2,4-Dinitrotoluene	ND	***	0.0100	H	18	н	n	
Decane	ND		0.0500	н	n	н	n	
Fluoranthene	ND		0.0100	"	rr	n	n	
Nitrobenzene	ND		0.0100	"	n	n	н	
Octadecane	ND		0.0500	11	n	11	н	
Pentachlorophenol (PCP)	ND		0.0250	n		19	n	
Surrogate: Nitrobenzene-d5 (Si	err)	Rec	overy: 84 %	Limits: 35-120 %	H	1)	и	
2,4-Dibromophenol	(Surr)		19 %	Limits: 30-125 %	×	u	н	S-0
2-Fluorobiphenyl (S	iurr)		85 %	Limits: 45-120 %	19	n	н	
p-Terphenyl-d14 (St	irr)		76 %	Limits: 30-120 %	19	n	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 4 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N, Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported:

06/27/08 12:01

ANALYTICAL SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes				
r-17-06-11-08 Sub Cat 'A' (A	1806100-01)		Matrix: Water									
Antimony	ND		0.00100	mg/L	1	06/16/08 20:49	EPA 200.8					
Arsenic	0,00411		0.00100	12	er	v	ħ					
Barium	0.00152		0.00100	**	Ħ	n	"					
Cadmium	ND		0.00100	11	n	0	11					
Chromium	ND		0,00100	т	н	н	11					
Cobalt	ND		0.00200	•	n	n	n					
Copper	0.0519		0.00500	п	11	**	R					
Lead	0.00188		0.00100	n	u	ч	н					
Molybdenum	0.00674		0.00200	11	n	U	н					
Nickel	0.00987		0.00100	er er	n	47	19					
Selenium	ND		0.00500	n	н	·\$1	19					
Silver	ND		0.00200		n	n	12					
Line	0.0837		0.00500	n	n	o	n					
/anadium	ND		0.00200	n	11	n	n					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 5 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

06/27/08 12:01

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes			
T-17-06-11-08 Sub Cat 'A' (A806100)-01)		Matrix: Wate	er			_				
HEM (Oil and Grease)	11.6		4.76	mg/L]	06/18/08 09:55	EPA 1664				
SGT-HEM (Non-polar Material)	4.76		4.76	n	n	06/18/08 14:24	EPA 1664-SGT				
pН	10.0			pH Units	H	06/12/08 10:11	EPA 150.1				
pH Temperature	20.6			deg C	n	n	н				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	Compou	nds by EP	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060105 - EPA 5030B	-				w		Wat	ter				
Blank (8060105-BLK1)						Analyzed:	06/12/08 10	:51				
EPA 624								_				
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	n	υ							
Chloroform	ND		0.00100	n	17							
1,2-Dichloroethane (EDC)	ND		0.000500	**								
Trichloroethene (TCE)	ND		0.000500	п					***			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 99 %	Limits:	80-120 %	Dil	ution: lx					
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"					
Toluene-d8 (Surr)			95 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			107 %		80-120 %		"					
LCS (8060105-BSI)						Analyzed:	06/12/08 09	:51				
EPA 624												
Chlorobenzene	0.0190		0.000500	ing/L	1	0.0200		95	70-130%			
Chloroform	0.0200	~~~	0.00100	11	v	"		100	n			
1,2-Dichtoroethane (EDC)	0.0195		0.000500	н	"	n		98	D			
Trichloroethene (TCE)	0.0211		0.000500	н	н	п		106	11			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 97%	Limits:	80-120 %	Dilı	ution: 1x			· * · · · · · · · · · · · · · · · · · ·		
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"					
Toluene-d8 (Surr)			93 %		80-120 %		n					
4-Bromofluorobenzene (Surr)			99 %		80-120 %		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 7 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060139 - EPA 3510C	:						Wat	er				
Blank (8060139-BLK1)						Analyzed:	06/16/08 15	:39				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1			~~~				
Carbazole	ND		0.000100	*	17							
2,4-Dinitrotoluene	ND		0.000100	19	п					*		
Decane	ND		0.000500	v	и							
Fluoranthene	ND		0.000100	17	"						-	
Nitrobenzene	ND		0.000100	11	11		***		Bard		~~~	
Octadecane	ND		0.000500	н								
Pentachlorophenol (PCP)	ND		0.000250	14	ir.							
Surr: Nitrobenzene-d5 (Surr)			overy: 97 %	Limits:	35-120 %	Dil	ution: 1x					
2,4-Dibromophenol (Surr)		Nec	88 %	Limita.	30-125 %	Dill	11 11					
2-Fluorobiphenyl (Surr)			97 %		45-120 %		,,					
p-Terphenyl-d14 (Surr)			79 %		30-120 %		"					
LCS (8060139-BS1)						Analyzed: (16/16/08 16	-03				
EPA 625 SIM						12101113 22200	10,00 10					
Bis(2-ethylhexyl)phthalate	0.00294		0.00125	mg/L	i	0.00500		59	40-125%			
Carbazole	0.00511		0.000100	n		"		102	"			
2,4-Dinitrotoluene	0.00546		0.000100	17	*	n		109	"			
Decane	0.00346		0.000500	v	п	16		91	IJ			
Fluoranthene	0.00453		0.000300	n	"	"			55-120%			
Nitrobenzene	0.00540		0.000100	н	u	u			40-125%			
Octadecane	0.00340		0.000500	#	tr	n		79	n			
			0.000300	,	n				40-120%			
Pentachlorophenol (PCP)	0.00548			J	27.122.07	0.1		110	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 100 %	Limits:		Dili	ution: Ix					
2,4-Dibromophenol (Surr)			92 %		30-125 %	•	,,					
2-Fluorobiphenyl (Surr)			99 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			80 %		30-120 %		,,					
LCS Dup (8060139-BSD1)						Analyzed: (6/16/08 16	:27				Q-1
EPA 625 SIM				,								
Bis(2-ethylhexyl)phthalate	0.00314		0.00125	mg/L	1	0.00500		63	40-125%	6	30%	
Carbazole	0.00507		0.000100	"	**	"	***	101		0.8	30%	
2,4-Dinitrotoluene	0.00516		0.000100	tr	"	11		103		6	30%	
Decane	0.00461		0.000500	61		17		92	н	1	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 8 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060139 - EPA 3510C							Wat	ter				
LCS Dup (8060139-BSD1)						Analyzed:	06/16/08 16	5:27				Q-19
Fluoranthene	0.00458		0.000100	mg/L	*	я		92	55-120%	0.7	30%	
Nitrobenzene	0.00530		0.000100	11	n	•		106	40-125%	2	30%	
Octadecane	0.00449		0.000500	**	19	n		90	9	13	30%	
Pentachlorophenol (PCP)	0.00513		0.000250	n	,,	v		103	40-120%	7	30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	covery: 99 %	Limits:	35-120 %	Dil	ution: lx					
2,4-Dibromophenol (Surr)			85 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			98 %		45-120 %		p					
p-Terphenyl-d14 (Surr)			78 %		30-120 %		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	3)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060131 - EPA 3015							Wa	ter				
Blank (8060131-BLK1)						Analyzed:	06/16/08 19	9:58		<u>-</u>		
EPA 200.8												
Antimony	ND		0.00100	mg/L	1							B-02
Arsenic	ND		0.00100	"	o ·							
Barium	· ·· ND		0.00100	19	σ							
Cadmium	ND		0.00100	17	n							
Chromium	ND		0.00100	v	и							
Cobalt	ND		0.00200		n							
Copper	ND		0.00500	*	v							
Lead	ND		0,00100		u						***	
Molybdenum	ND		0.00200	п	ur .							
Nickel	ND		0.00100	19	HT.							
Selenium	ND		0,00500	11		***			***			
Silver	ND		0.00200	n	n							
Zinc	ND		0.00500	n	v	****						
Vanadium	ND		0.00200	ıı	1/							
LCS (8060131-BS1)						Analyzed:	06/16/08 20	:10				
EPA 200.8												
Antimony	0.0446		0.00100	mg/L	ı	0.0278		161	85-115%			Q-08, Q-23
Arsenic	0.0562		0.00100	n	tı	0.0556		101	,			Q 23
Barium	0.0573	-~-	0.00100	"	v	υ.		103	n			
Cadmium	0.0531		0.00100	0	10	**		96	0			
Chromium	0.0509		0.00100	n	17			92	17			
Cobalt	0.0526		0.00200	**		,		95	**			
Copper	0.0559		0.00500	11	,,			101	*			
Lead	0.0554		0.00100	19	n	71		100	,,			•
Molybdenum	0.0575		0.00200	n		11		103	TI			
Nickel	0.0559		0.00100	U	17	u		101	10			
Selenium	0.0273		0.00500	17	n	0.0278		98	¥r			
Silver	0.0287		0.00200	it .		n		104	17			
Zinc	0.0537		0.00500	11	н	0.0556		97	11			
Vanadium	0.0522		0.00200	и	**	n		94				
Matrix Spike (8060131-MS2)			Source: A	806100-01		Analyzed: (16/16/08 20	:52				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 10 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060131 - EPA 3015							Wat	er				
Matrix Spike (8060131-MS2)			Source: A	806100-01		Analyzed:	06/16/08 20	:52				
EPA 200.8												
Antimony	0.0452		0.00100	mg/L	t	0.0278	ND	163	70-130%			Q-01
Arsenic	0.0551		0.00100	v	11	0.0556	0.00411	92	17			
Barium	0.0584		0.00100	41		.11	0.00152	102	12			
Cadmium	0.0537		0.00100		н	19	0.000233	96	н			
Chromium	0.0523		0.00100	•	**	n	0.000944	92	n			
Cobalt	0.0530		0.00200	11	н	n	0.000167	95	n			
Copper	0.108		0.00500	47	v	н	0.0519	101	17			
Lead	0.0569		0.00100	n		11	0.00188	99	n			
Molybdenum	0.0655		0.00200	н	n	**	0.00674	106	*	^		
Nickel	0.0665		0.00100	n	"	11	0.00987	102	•			
Selenium	0.0308		0.00500	v	n	0.0278	0.00183	104	n			
Silver	0.0281		0.00200	tr	11	н	ND	101	12			
Zinc	0.134		0.00500	n	41	0.0556	0.0837	91	w			
Vanadium	0.0530		0.00200	n	*	0	0.000422	95	*1			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 11 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional Ch	emistry	Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060109 - Method P	rep: Aq						Wa	ter				
Duplicate (8060109-DUP1)			Source: A	806100-01		Analyzed:	06/12/08 16	14				
EPA 150.1												
pН	10.0			pH Units	I		10.0			0.0999	10%	
pH Temperature	20.6			n	11		20.6			0.00	200%	
Reference (8060109-SRM1)						Analyzed:	06/12/08 10	:08	•			
EPA 150.1 .												
pН	6.04			pH Units	1	6.00		101 3.3	33-101,666	55		
Reference (8060109-SRM2)						Analyzed: 0	06/12/08 10	:20				
EPA 150.1												
pH	7.95			pH Units	1	8.00		99.4 98.	75-101.25%	4		
Reference (8060109-SRM3)						Analyzed: 6	06/12/08 13	:18				
EPA 150.1												
pН	7.93			pH Units	1	8.00		99.1 98.	75-101.259	4		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

06/27/08 12:01

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060153 - EPA 1664							Wa	ter				
Blank (8060153-BLK1)						Analyzed:	06/18/08 09):55				
EPA 1664												
HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8060153-BLK2)						Analyzed:	06/18/08 14	1:24				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	ND	***	5.00	mg/L	1							
LCS (8060153-BS1)						Analyzed: (06/18/08 09	:55				
EPA 1664												
HEM (Oil and Grease)	37.3			mg/L	1	40.0		93	78-114%			
LCS (8060153-BS2)						Analyzed: (06/18/08 14	1:24				
EPA 1664-SGT			_									
SGT-HEM (Non-polar Material)	16.9			mg/L		20.0		84	64-132%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project Number: I-000-0002-100
Project Manager: Lian Jewell

Reported: 06/27/08 12:01

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Cor	npounds by EPA 624			
Prep: EPA 5030B Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Pre
Batch: 8060105	Wasan	EPA 624	06/11/08 12:20	05/12/09 09:29	5 I /5 I	5I 15I	1.00
A806100-01	Water	EPA 024	06/11/08 12:30	06/12/08 08:38	5mL/5mL	5mL/5mL	1.00
		Semivolatile Org	ganic Compounds by	/ EPA 625 Modified (S	SIM Analysis)		
Prep: EPA 3510C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8060139							
A806100-01	Water	EPA 625 SIM	06/11/08 12:30	06/16/08 09:38	1000mL/5mL	1000mL/5mL	1.00
			Total Metals by EP	A 200.8 (ICPMS)			
Prep: EPA 3015					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8060131							
A806100-01	Water	EPA 200.8	06/11/08 12:30	06/13/08 12:06	45mL/50mL	45mL/50mL	1.00
			Conventional Chem	istry Parameters			
Prep: EPA 1664					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8060153							
A806100-01	Water	EPA 1664	06/11/08 12:30	06/17/08 07:50	1N/A/1N/A	1N/A/1mL	NA
A806100-01	Water	EPA 1664-SGT	06/11/08 12:30	06/17/08 07:50	1N/A/1N/A	1N/A/1mL	NA
Prep: Method Prep	: Aq				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8060109							
A806100-01	Water	EPA 150.1	06/11/08 12:30	06/12/08 08:41	20mL/20mL	20mL/20mL	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 14 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Reported:

Portland, OR 97217

Project Manager: Lian Jewell

06/27/08 12:01

Notes and Definitions

Qualifiers:

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL. The percent recovery and/or RPD was outside acceptance limits for this spiked sample. The batch was accepted based on LCS recovery. Q-01 Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not detected in reported client samples. Data quality is not affected. Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for 0-23 Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Data is likely biased high.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-05 Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix interference.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR

QC

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 15 of 16

AMENDED REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Project: Sub Cat 'A'
Project Number: 1-000-0002-100

Reported: 06/27/08 12:01

Portland, OR 97217

Project Manager: Lian Jewell

ď (६)) संसाग्रद क्राफार्स Mas Parlier. Pert CHAIN OF CUSTODY ROTE LCO! MINA MISSOCIA MOON OUT 1001 101 028 12231 S.M. Garden Place, Ngard, OR 97223. Ph. 503-718-2323 Fav. 503-715-0333 *DHALMN AU-MALLAND KALLNIFECIO в оп соитативь<u>я</u> XISTAM SDAY DVAE 4 DAY FOIBVE APEX LABS

Anex	Laborat	ories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08060833

Report To:	-	Project Name:	A806100
APEX Laboratories		<u>Site:</u>	Tigard, OR
Darwin Thomas		Site Address:	
12232 SW Garden Place			
Portland		PO Number:	
OR		State:	Oregon
97223-		State Cert, No.:	TX200001
ph: (503) 718-2323	fax:	Date Reported:	6/25/2008

This Report Contains A Total Of 13 Pages

Excluding This Page

And

Chain Of Custody



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: APEX Laboratories

Certificate of Analysis Number:

08060833

Report To: Project Name: A806100 Tigard, OR Site: **APEX Laboratories Darwin Thomas** Site Address: 12232 SW Garden Place PO Number: **Portland** State: Oregon 97223-TX200001 State Cert. No.: ph: (503) 718-2323 fax: 6/25/2008 Date Reported:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry").

Your sample ID "T-17-06-11-08 Sub Cat 'A"" (SPL ID: 08060833-01) was analyzed for Chlordane by Method 608. The surrogate Decachlorobiphenyl was below the quality control limits due to possible matrix interference, however there was insufficient sample to confirm matrix interference.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 80323 for the Pesticide/PCBs analysis by EPA Method 608. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08060833 Page 1

6/26/2008 Date

Bethany A. Agarwal

Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08060833

Report To:

Fax To:

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR 97223-

ph: (503) 718-2323

fax: (503) 718-0333

Project Name:

A806100

Site:

Tigard, OR

Site Address:

PO Number:

State:

Oregon

State Cert. No.:

TX200001

Date Reported:

6/25/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	HOLD
T-17-06-11-08 Sub Cat 'A'	08060833-01	Water	6/11/2008 12:30:00 PM	6/13/2008 9:30:00 AM	

Bethon Agamel

6/26/2008

Date

Bethany A. Agarwal Senior Project Manager

> Richard R. Reed Laboratory Director

Ted Yen
Quality Assurance Officer

08060833 Page 2 6/26/2008 4:04:16 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-17-06-11-08 Sub Cat 'A'

Collected: 06/11/2008 12:30

SPL Sample ID:

08060833-01

Site: Tigard, OR

Analyses/Method	Result	QUAL	MDL	R	ep.Limit	Dil. Fa	ctor Date Analyzed	Analyst	Seq.#	
PESTICIDE/PCBS BY METHOD 608						MCL	E608 Units	nits: mg/L		
Chlordane	ND		0.00014		0.0005	1	06/16/08 18:42	CJR	4511541	
Surr: Decachlorobiphenyl	23.6	•	0	%	35-124	1	06/16/08 18:42	CJR	4511541	
Surr: Tetrachloro-m-xylene	58.7		0	%	48-120	1	06/16/08 18:42	CJR	4511541	

Prep Method	Prep Date	Prep Initials	Prep Factor
F608	06/14/2008 11:06	NM	1.00

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference * - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

B/V - Analyte detected in the associated Method Blank above Rep.Limit

TNTC - Too numerous to count

08060833 Page 3 6/26/2008 4:04:25 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-17-06-11-08 Sub Cat 'A'

Collected: 06/11/2008 12:30

SPL Sample ID:

06/24/08 16:09

BDG

1

08060833-01

4523179

Site:	Tigar	d.	OF

0.02

			Oite. Hig	jara, Ort				
Analyses/Method	Result	QUAL MI	DL Rep.Lir	nit	Dil. Fac	tor Date Analyzed	Analyst	Seq.#
MERCURY, TOTAL				MCI	-	E245.1 Units	: mg/L	
Mercury	ND	7.27E	-05 0.00	02	1	06/20/08 16:01	CMC	4518158
Prep Method	Prep Date	Prep Initials	Prep Factor					
E245.1	06/20/2008 12:05	CMC	1.00					
METALS BY METHO	OD 200.7, TOTAL			MCI	•	E200.7 Units	: mg/L	
Tin	ND	0.01	31 0.0)5	1	06/24/08 16:09	BDG	4523179

0.00102

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.7/200.8	06/19/2008 13:50	DDW	1.00

0.0012

Bethon Agame

Bethany A. Agarwal Project Manager

Qualifiers:

Titanium

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

* - Surrogate Recovery Outside Advisable QC Limits

MI - Matrix Interference
* TNTC - Too numerous to

E - Concentrations exceeding Calibration range of Instrument

TNTC - Too numerous to count

B/V - Analyte detected in the associated Method Blank above Rep.Limit

08060833 Page 4 6/26/2008 4:04:26 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: T-17-06-11-08 Sub Cat 'A'

Collected: 06/11/2008 12:30

SPL Sample ID:

08060833-01

Site: Tigard, OR

			•		-,				
Analyses/Method	Result	QUAL N	1DL	Rep.Limit	ם	il. Fact	or Date Analyzed	Analyst	Seq. #
CYANIDE, TOTAL					MCL		E335.2 Units	: mg/L	
Cyanide	ND	0.0	015	0.005		1	06/19/08 19:00	ESK	4513796
Prep Method	Prep Date	Prep Initia	ls Pre	p Factor					
E335.2	06/19/2008 10:00	ESK	1.0	0					
SULFIDE, TOTAL					MCL		E376.2 Units	: mg/L	
Sulfide	0.0477	1 00	304	0.1		2	06/14/08 15:00	AF	4501275

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

TNTC - Too numerous to count

* - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument B/V - Analyte detected in the associated Method Blank above Rep.Limit

08060833 Page 5 6/26/2008 4:04:26 PM

Quality Control Documentation



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories

A806100

Analysis:

Pesticide/PCBs by Method 608

Method:

E608

Samples in Analytical Batch:

WorkOrder:

08060833

Lab Batch ID:

80323

Method Blank

Lab Sample ID

Client Sample ID

RunID: Analysis Date: VARG_080616A-4511281

mg/L CJR Analyst:

08060833-01A

T-17-06-11-08 Sub Cat 'A'

Preparation Date:

06/16/2008 19:42 06/14/2008 11:06

Prep By: N_M Method E608

Analyte	Result	Qual	Rep Limit	MDL
Chlordane	ND		0.00050	0.00014
Surr: Decachlorobiphenyl	116.8		35-124	0
Surr: Tetrachloro-m-xylene	106.8		48-120	. 0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

VARG_080616A-4511283

Units:

06/16/2008 20:02

mg/L CJR Analyst:

Analysis Date: Preparation Date:

06/14/2008 11:06

Prep By: N_M Method E608

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chlordane	0.00500	0.00470	94.0	0.00500	0.00476	95.2	1.3	20	45	119
Surr: Decachlorobiphenyl	1.00	1.15	115	1.00	1.16	116	0.6	30	35	124
Surr: Tetrachloro-m-xylene	1.00	1.03	103	1.00	1.03	103	0.7	30	48	120

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08060833 Page 7

6/26/2008 4:04:28 PM

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Quality Control Report

APEX Laboratories

A806100

Analysis:

Metals by Method 200.7, Total

Method:

E200.7

WorkOrder:

Samples in Analytical Batch:

08060833

Lab Batch ID:

80596

Method Blank

TJA_080624C-4523171

Units: mg/L Lab Sample ID

Client Sample ID

RuniD: Analysis Date:

06/24/2008 15:33

BDG Analyst:

08060833-01D

T-17-06-11-08 Sub Cat 'A'

Preparation Date:

06/19/2008 13:50

Prep By: DD Method E200.7/200.8

Analyte	Result	Qual	Rep Limit	MDL
Tin	ND		0.05	0.0131
Titanium	ND		0.02	0.00102

Laboratory Control Sample (LCS)

RuniD:

TJA 080624C-4523172

06/24/2008 15:37

Units: mg/L

Analysis Date: Preparation Date:

06/19/2008 13:50

BDG Analyst:

Prep By: DD Method E200.7/200.8

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Tin	1.000	1.065	106.5		85	115
Titanium	1.000	1.001	100.1		85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

RunID:

08060809-01

TJA_080624C-4523174

Units: mg/L

Analysis Date: Preparation Date: 06/24/2008 15:46 06/19/2008 13:50

BDG Analyst:

Prep By: DD Method E200.7/200.8

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Limit	High Limit
Tin	ND		1	1.061	106.1		1	1.008	100.8		5.089		20		130
Titanium	0.003970	J	1	0.9885	98.45		1	0.9579	95.40		3.138		20	70	130

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08060833 Page 8

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/26/2008 4:04:28 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories

A806100

Analysis:

Mercury, Total

Method:

E245.1

WorkOrder:

08060833

Lab Batch ID:

80625

Method Blank

·

Samples in Analytical Batch:

RunID:

HGLC_080620A-4518153

Units: mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

06/20/2008 15:50

Analyst: CMC

08060833-01D

T-17-06-11-08 Sub Cat 'A'

Preparation Date:

06/20/2008 12:05

711101900 01110

Prep By: CMC Method E245.1

Laboratory Control Sample (LCS)

RunID:

HGLC_080620A-4518159

Units:

mg/L

Analysis Date: Preparation Date: 06/20/2008 16:15 06/20/2008 12:05 Analyst: CMC
Prep By: CMC Method E245.1

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Mercury	0.002000	0.002013	100.7		85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08060979-02

RunID:

HGLC_080620A-4518156

Units: mg/L

06/20/2008 15:57

Analyst: CMC

Analysis Date: Preparation Date:

06/20/2008 12:05

Prep By:

CMC Method E245.1

Analyte	Sample	Smp	MS	MS	MS %	MS	MSD	MSD	MSD %	MSD	RPD	RPD	RPD	Low	High
	Result	Qual	Spike	Result	Rovry	Qual	Spike	Result	Rovry	Qual		Qual	Limit	Limit	Limit
1			Added				Added							l i	
Mercury	ND		0.002	0.001481	74.04		0.002	0.001559	77.95		5.140		20	70	130

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

MI - Matrix Interference

E - Estimated Value exceeds calibration curve J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08060833 Page 9

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/26/2008 4:04:28 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories

A806100

Analysis:

Cyanide, Total

Method:

E335.2

WorkOrder:

08060833

Lab Batch ID:

80589

Method Blank

Samples in Analytical Batch:

RunID:

WET_080619X-4513792

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

06/19/2008 19:00

ESK Analyst:

08060833-01B

T-17-06-11-08 Sub Cat 'A'

Preparation Date:

06/19/2008 10:00

Prep By: ESK Method E335.2

Analyte	Result	Qual	Rep Limit	MDL
Cyanide	ND		0,0050	0.0015

Laboratory Control Sample (LCS)

RunID:

WET 080619X-4513793

Units:

mg/L

Analysis Date: Preparation Date:

06/19/2008 19:00 06/19/2008 10:00 Analyst: **ESK**

Prep By: ESK Method E335.2

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Cyanide	0.2000	0.2045	102.2		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08060833-01

RunID:

WET 080619X-4513797

mg/L Units:

Analyst:

Analysis Date: Preparation Date: 06/19/2008 19:00 06/19/2008 10:00

ESK

Prep By: ESK Method E335.2

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rovry	MSD Qual	RPD	Qual	RPD Limit	Limit	High Limit
Cyanide	ND		0.2	0.2013	100.7		0.2	0.2087	104.4		3.604		20		125

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

Mi - Matrix Interference

E - Estimated Value exceeds calibration curve

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

BN - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08060833 Page 10

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/26/2008 4:04:29 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Quality Control Report

APEX Laboratories A806100

Analysis:

Sulfide, Total

Method:

E376.2

WorkOrder: Lab Batch ID: 08060833 R241355

Samples in Analytical Batch:

RunID:

WET_080614E-4501259

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

06/14/2008 15:00

A_E Analyst:

08060833-01C

T-17-06-11-08 Sub Cat 'A'

Analyte	Result	Qual	Rep Limit	MDL
Sulfide	0.0215	J	0.050	0.0152

Method Blank

Laboratory Control Sample (LCS)

RunID:

WET 080614E-4501260

Units:

Analysis Date:

06/14/2008 15:00

mg/L Analyst: A_E

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit	
Sulfide	0.2500	0.2445	97.82		89	108	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08060619-03

RunID:

WET_080614E-4501268

Units: mg/L

Analysis Date:

06/14/2008 15:00

Analyst: A_E

Analyte	Sample	Smp	MS	MS	MS %	MS	MSD	MSD	MSD %	MSD	RPD	RPD	RPD	Low	High
	Result	Qual	Spike	Result	Rcvry	Qual	Spike	Result	Rcvry	Qual		Qual	Limit	Limit	Limit
			Added				Added								
Sulfide	4569	В	5000	9167	91,96		5000	9121	91.04		0.5031		12	84	115

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

MI - Matrix Interference

E - Estimated Value exceeds calibration curve

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

BN - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08060833 Page 11

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/26/2008 4:04:29 PM

Sample Receipt Checklist And Chain of Custody



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Workorder: Date and Time Received: Temperature:	08060833 6/13/2008 9:30:00 AM 4.5°C		Received By: Carrier name Chilled by:	
1. Shipping container/	cooler in good condition?	Yes 🗹	No 🗆	Not Present
2. Custody seals intac	t on shippping container/cooler?	Yes	No 🗌	Not Present
3. Custody seals intac	t on sample bottles?	Yes 🗀	№ □	Not Present
4. Chain of custody pr	esent?	Yes 🔽	No 🗌	
5. Chain of custody sig	gned when relinquished and received?	Yes 🗹	No 🗆	
6. Chain of custody ag	rees with sample labels?	Yes 🗹	No 🗆	
7. Samples in proper c	ontainer/bottle?	Yes 🗹	No 🗆	
8. Sample containers in	ntact?	Yes 🔽	No 🗆	
g. Sufficient sample vo	olume for indicated test?	Yes 🗸	No 🗆	
10. All samples received	d within holding time?	Yes 🗹	No 🗌	
11. Container/Temp Bla	nk temperature in compliance?	Yes 🗹	No 🗆	
12. Water - VOA vials ha	eve zero headspace?	Yes 🗌	No □ V	OA Vials Not Present
3. Water - Preservation	checked upon receipt (except VOA*)?	Yes 🗌	No 🗆	Not Applicable
*VOA Preservation C	hecked After Sample Analysis			
SPL Representa	tive:	Contact Date &	Time:	
Client Name Contac				
Non Conformance (Chain of custody requesting Titanium not run	by 200.8, however SPL	only analyzes Ti b	y 200.7.
Client Instructions:				

SUBCONTRACT ORDER

Apex Laboratories A806100

)8Ue0833

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223 Phone: (503) 718-2323

Fax: (503) 718-0333 Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77054 Phone:(800) 969-6775 Fax: (713) 660-8975

Sample Name: T-17-06-11-08 Sub Cat 'A'		Water Sampled	: 06/11/08 12:30 (A806100-01)
Analysis	Duc	Expires	Comments
245.1 Hg (Mercury) - Total (H2O) LZ	06/20/08 17:00	07/09/08 12:30	SPL limit 0.1 mg/L
608 PCBs	06/20/08 17:00	06/18/08 12:30	SPL Chlordane only, limit 0.03 mg/Liter
Cyanide, Total	06/20/08 17:00	06/25/08 12:30	SPL limits 1.2 mg/L
Sn (Tin) - 200.7 - Total して	06/20/08 17:00	12/08/08 12:30	SPL limts 0.146 mg/L
Sulfide (376.2)	06/20/08 17:00	06/18/08 12:30	SPL 4.0 mg/L
Ti (Titanium) - 200.8 - Total 🗸 🗸	06/20/08 17:00	12/08/08 12:30	
Containers Supplied:			
(C)1 L Amber Glass - Non Preserved			
(E)250 mL Poly - NaOH			
(F)250 mL Poly - NaOH/Zinc Acetate			
(M)250 mL Poly - Nitric (HNO3)			

Released By

Released By

Date

Received By





Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 972	3-5452 Dean Marriott, Director	Dan Saltzman, Commissioner
BATCH DISCH	ARGE REQUEST FORM	

Waste Generator Information		Permit Contact Information	
Source Name	Cascade General	Name	Charles Isted
		Address	Cascade General
Source Address	5555 N. Channel Ave. Portland, OR		5555 N. Channel Ave
	97217		Portland, OR 97217
		Telephone Number	503/247-1959
		Facsimile Number	503/247-1391
Batch Information	CWTB	Email Address	cisted@casgen.com
Batch Number:		Proposed Discharge	550,000 gal
		Volume:*	
Request Date/Time:	6/16/2008 1100	Actual Discharge	
		Volume:	
Date Proposed:	6/16/08	Sampling Location:	Tank-7, BWTP
Duration of Discharge:	Start: 6/17/08 1200	Stop: 6/18/08	Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B

Discharge flow will be stopped if heavy rain develops. Flow will be held below 180 gpm.

Are the analysis sheets, QA/QC and chain of custody attached?

YES or NO (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

May 2008

Ballast Water Treatment Plant Effluent - (CWT - B)

Date Postmarked/Received	Date Entered	
omments	Entered By:	

SAMPLE DATE	POINT OF	COMPLIAN	CE S	SAMPLE TYPE	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
05/28/08	C	WT2B		GRAB			
PARAMETER	ANALYSIS METHOD		PORTED INTRATION	MDL	LI DAILY	MITS MONTHLY	COMMENTS
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT	ND	mg/L	4.63 mg/L	110 mg/L	N/A	Local Limit
pН	EPA 150.1	9.36	SU		5.0 - 11.5	N/A	Local Limit
Bis-2-ethyhexylphthalate	EPA 625 SIM	ND	mg/L	0.120 mg/L	0.267 mg/L	0.158 mg/L	Total
Carbazole	EPA 625 SIM	ND .	mg/L	0.00962 mg/L	0.392 mg/L	0.233 mg/L	TOTAL CONTROL
Fluoranthane	EPA 625 SIM	ND	mg/L	0.00962 mg/L	0.787 mg/L	0.393 mg/L	The state of the s
n-Decane	EPA 625 SIM	ND	mg/L	0.0481 mg/L	5.79 mg/L	3.31 mg/L	Section 1. The sectio
n-Octadecane	EPA 625 SIM	ND	mg/L	0.0481 mg/L	1.22 mg/L	0.925 mg/L	And And And And And And And And And And
Pentachlorophenol (PCP)	EPA 625 SIM	ND	mg/L	0.024 mg/L	0.04 mg/L	N/A	Local Limit

^{1.} If the value of HEM α Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM α Oil and Grease Non-Polar constituent

SAMPLE DATE	POINT OF	COMPLIANCE	s	AMPLE TYPE	an code common commo		
05/28/08	C	WT2B		COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORT CONCENTRA		MDL	COR DESCRIPTION OF THE PROPERTY OF THE PARTY.	MITS MONTHLY	COMMENTS
Antimony	EPA 200.8	0.0150	mg/L	0.00100 mg/L	0.237 mg/L	0.141 mg/L	
Barium (Total)	EPA 200.8	0.00819	mg/L	0.00100 mg/L	0.427 mg/L	0.281 mg/L	
Chromium (Total)	EPA 200.8	0.0194	mg/L	0.00100 mg/L	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	0.0256	mg/L	0.00200 mg/L	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	ND 1	ng/L	0.00500 mg/L	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND 1	ng/L	0.00100 mg/L	0.222 mg/L	0.172 mg/L	
Molybdenum (Total)	EPA 200.8	0.126	mg/L	0.00200 mg/L	1.4 mg/L	2.09 mg/L	
Tin (Total)	EPA 200.7	0.0498	mg/L	0.0131 mg/L	0.249 mg/L	0.146 mg/L	
Zinc (Total)	EPA 200.8	0.0144	ng/L	0.00500 mg/L	3,7 mg/L	4.46 mg/L	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date: 6/16/08

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Thursday, June 12, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for samples received by the laboratory on 5/28/2008 at 4:48:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION Sample ID Laboratory ID Matrix Date Sampled Date Received T-05-29-08 A805270-01 Water 05/28/08 14:10 05/28/08 16:48

Apex Laboratories

Daim | Jum

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

ANALYTICAL CASE NARRATIVE

Work Order: A805270

This report has been revised to amend the method reporting limit (MRL) for Selenium. The MRL for Selenium was originally reported as 1ppb at the instrument based on the laboratory's method detection limit studies and standard operating conditions. The MRL has been raised to 5 ppb on instrument due Krypton contamination in the Argon gas utilized for this analysis. Although instrument and batch QC results for Se were acceptable, parameters indicated that the level of Krypton interference exceeded control limits, and therefore the precision and accuracy of Se concentrations on instrument less than 5 ppb may have been effected. All Se MRL values have been raised to 5 ppb and results originally reported as hits between 1 ppb and 5 ppb have been amended to non-detect.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 3 of 17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

ANALYTICAL SAMPLE RESULTS

	Purgeable Organic Compounds by EPA 624													
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes						
T-05-29-08 (A805270-01RE1)			Matrix: W	ater										
Acrylonitrile	ND		0.0500	mg/L	50	06/07/08 22:46	EPA 624							
Chlorobenzene	ND		0.0250	11	ıı	н	n							
Chloroform	0.0540		0.0500	**	n	н	11							
1,2-Dichloroethane (EDC)	ND		0.0250	II .	n	н	u							
Trichloroethene (TCE)	ND		0.0250	11	"	n	n.							
Surrogate: Dibromofluorometho	ane (Surr)	Rec	overy: 97 %	Limits: 80-120 %	1	1)	11							
1,4-Difluorobenzene	(Surr)		99 %	Limits: 80-120 %	0	ų	U							
Toluene-d8 (Surr)			99 %	Limits: 80-120 %	0	v	U							
4-Bromofluorobenze	ne (Surr)		106 %	Limits: 80-120 %	u.	tf	п							

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Reported: 05/30/08 10:19

Project Manager: Lian Jewell

ANALYTICAL SAMPLE RESULTS

S	emivolatil	e Organic	Compoun	ds by EPA 625 M	lodified (S	IM Analysis)		
Analyte	Result	MDL	Reporting Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-05-29-08 (A805270-01)			Matrix: W	ater	ĺ			R-04
Bis(2-ethylhexyl)phthalate	ND		0.120	mg/L	100	06/03/08 12:21	EPA 625 SIM	
Carbazole	ND		0.00962	ır	*	n	ų	
2,4-Dinitrotoluene	ND		0.00962	4	ıt	v	n	
Decane	ND		0.0481	11	и	n	11	
Fluoranthene	ND		0.00962	v	п	н	n	
Nitrobenzene	ND		0.00962	17	9	n	II.	
Octadecane	ND		0.0481	н	ıt	n.	н	
Pentachlorophenol (PCP)	ND		0.0240	и		17	n	
Surrogate: Nitrobenzene-d5 (Surr)		Reco	overy: 78 %	Limits: 35-120 %	n	nt.	7	
2,4-Dibromophenol (Surr)			106 %	Limits: 30-125 %	19	и	10	
2-Fluorobiphenyl (Surr)			86 %	Limits: 45-120 %	0	n	17	
p-Terphenyl-d14 (Surr)			78 %	Limits: 30-120 %	17	19	n	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

ANALYTICAL SAMPLE RESULTS

		Tot	tal Metals by E	PA 200.8 (I	CPMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-05-29-08 (A805270-01)			Matrix: Water	•				
Antimony	0.0150		0.00100	mg/L	1	06/04/08 13:56	EPA 200.8	Q-23
Arsenic	0.0131		0.00100	n	U	11	v	
Barium	0.00819		0.00100	H	17	ti-	17	
Cadmium	ND		0.00100	n	n	H.	и	
Chromium	0.0194		0.00100	n	11	it		
Cobalt	0.0256		0.00200	11	"	н	*	
Copper	ND		0.00500	¥7	n	н	n	
Lead	ND		0.00100	n	v	н	n	
Molybdenum	0.126		0.00200	и	.,	19	ii	B, B-01
Nickel	0.177		00100.0	H	H	11	tt	
Selenium	ND		0.0250	н	5	06/04/08 17:12	ıı	ME-01
Silver	ND		0.00200	D	1	06/04/08 13:56	и	
Zinc	0.0144		0.00500	41	16	И	n	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

ANALYTICAL SAMPLE RESULTS

		Con	ventional Ch	emistry Para	meters			
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-05-29-08 (A805270-01)			Matrix: Wate	er				
HEM (Oil and Grease)	8.15		4.63	mg/L	i	06/02/08 11:54	EPA 1664	
SGT-HEM (Non-polar Material)	ND		4,63	п	н	06/02/08 15:44	EPA 1664-SGT	
рH	9.36			pH Units	n	05/29/08 12:06	EPA 150.1	
pH Temperature	20.9			deg C	n	n	n	

Apex Laboratories

cusioay aoc

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Reported: 05/30/08 10:19

Portland, OR 97217 Project Manager: Lian Jewell

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Purgeable	Organi	c Compou	nds by EP	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil,	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060072 - EPA 5030B							Wat	ter				
Blank (8060072-BLK1)						Analyzed:	06/07/08 19	:44				
EPA 624									-			
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	11	r r					***		
Chloroform	ND		0.00100	"	н							
1,2-Dichloroethane (EDC)	ND		0.000500	п	"							
Trichloroethene (TCE)	ND		0.000500		'n							
Surr: Dibromofluoromethane (Surr)		Rec	overy: 96 %	Limits:	80-120 %	Dil	ution: 1x					-
1,4-Difluorobenzene (Surr)			100 %		80-120 %		n					
Toluene-d8 (Surr)			99 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			108 %		80-120 %		"					
LCS (8060072-BS1)						Analyzed: (06/07/08 18	:43				
EPA 624												
Acrylonitrile	0.0213		0.00100	mg/L	1	0.0200		106	70-130%			
Chlorobenzene	0.0200		0.000500	v	n	"		100	n			
Chloroform	0.0194		0.00100	· ·	и	"		97	н			
1,2-Dichloroethane (EDC)	1910.0		0.000500	6	н	19		95	п			
Trichloroethene (TCE)	0.0204		0.000500	п	n	**	***	102	it.			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 93 %	Limits:	80-120 %	Dili	ution: lx					***********
1,4-Difluorobenzene (Surr)			97 %		80-120 %		II					
Toluene-d8 (Surr)			97 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			99 %		80-120 %		. "					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

			Reporting			Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Dil.	Amount	Result	%REC	Limits	RPD	Limit	Notes
Batch 8050315 - EPA 3510C							Wat	ter				
Blank (8050315-BLK1)						Analyzed:	06/03/08 10	:46				
EPA 625 SIM				•								
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1							
Carbazole	ND		0.000100	17	n							
2,4-Dinitrotoluene	ND		0.000100	н	н							
Decane	ND		0.000500	Ħ	ħ							
Fluoranthene	ND		0.000100	0	0							
Nitrobenzene	ND		0.000100	11	ń							
Octadecane	ND		0.000500	п	n							
Pentachlorophenol (PCP)	ND		0.000250	h	h							
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 100%	Limits:	35-120 %	Dil	ution: 1x					
2,4-Dibromophenol (Surr)			73 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			102 %		45-120%		"					
p-Terphenyl-d14 (Surr)			97 %		30-120 %		"					
LCS (8050315-BS1)	•					Analyzed:	06/03/08 11	:10				
EPA 625 SIM												****
Bis(2-ethylhexyl)phthalate	0.00295		0.00125	mg/L	1	0.00500		59	40-125%			
Carbazole	0.00501		0.000100	17	. "	17		100	11			
2,4-Dinitrotoluene	0,00397		0,000100	v	1)	ır	****	79	H.			
Decane	0.00677		0.000500	17	n	PT		135	м			E, Q-08,
												Q-23
Fluoranthene	0.00497		0.000100	n	u	"		99	55-120%			•
Nitrobenzene	0.00544		0.000100	11	n	tf		109	40-125%			
Octadecane	0.00406		0.000500	**	n	н		81	13			
Pentachlorophenol (PCP)	0.00467		0.000250	11	•	η		93	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 107%	Limits:	35-120 %	Dila	ution: 1x					
2,4-Dibromophenol (Surr)			71 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			114%		45-120 %		п					
p-Terphenyl-d14 (Surr)			101 %		30-120 %		"					
LCS Dup (8050315-BSD1)						Analyzed: (06/03/08 11:	:33				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00352		0.00125	mg/L	1	0.00500		70	40-125%	18	30%	
Carbazole	0.00473		0.000100	п				95	17	6	30%	
										-		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 9 of 17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	Organic Co	ompoun	ds by EPA	625 Modi	fied (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050315 - EPA 3510C							Wat	ter				
LCS Dup (8050315-BSD1)						Analyzed:	06/03/08 11	:33				
Decane	0,00683		0.000500	mg/L	ır	13		137	B)	0.8	30%	E, Q-08, Q-23
Fluoranthene	0.00456		0.000100		"	17		91	55-120%	9	30%	
Nitrohenzene	0.00525		0.000100		*	н		105	40-125%	4	30%	
Octadecane	0.00418		0.000500	11		4		84	**	3	30%	
Pentachlorophenol (PCP)	0.00453		0.000250	11	D	n		91	40-120%	3	30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 102 %	Limits:	35-120%	Dih	ution: 1x	-				
2,4-Dibromophenol (Surr)			66 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			108 %		45-120 %		17					
p-Terphenyl-d14 (Surr)			93 %		30-120 %		".					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 10 of 17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)											
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060021 - EPA 3015							Wat	ter				
Blank (8060021-BLK1)						Analyzed:	06/04/08 12	:40				
EPA 200.8												
Antimony	ND		0.00100	mg/L	1							
Arsenic	ND		00100.0	v	D							
Barium	ND		0.00100	b	n							B-0
Cadmium	ND		0.00100	NT.	н							
Chromium	ND		0.00100		н							
Cobalt	ND		0.00200	**	11							
Copper	ND		0.00500	,,	v							
Lead	ND		0.00100	1)	0							
Molybdenum	0.00240		0.00200	17	er							I
Nickel	ND		0.00100	17	n							
Silver	ND		0.00200	н	n				~~-			
Zinc	ND		0.00500	н	,							
						Analyzed: (06/04/08 17	:06				
EPA 200,8				_	,							
Selenium	ND		0.00500	.,	,,		***					ME-0
LCS (8060021-BS1)						Analyzed: (06/04/08 12	:43				
EPA 200.8					_							
Antimony	0.0464		0.00100	mg/L	1	0.0278		167	85-115%			Q-23
Arsenic	0.0552		0.00100	U	17	0.0556		99	,			
Barium	0.0588		0.00100	II.	-	17	***	106	13			
Cadmium	0.0518		0.00100	H	н	n		93	u			
Chromium	0.0520		0.00100	H	11	"		94	"			
Cobalt	0.0541		0.00200	n	ır	n		97	17			
Copper	0.0569		0.00500	v	*	"		102	н			
Lead	0.0561		0,00100	**	17	te .		101	н			
Molybdenum	0.0589		0.00200	n	н	U		106	n			B-01, E
Nickel	0.0517		0.00100	и	н	ts.		93	11			
Silver	0.0288		0.00200	n	11	0.0278		104	v			
Zinc	0.0505		0.00500	"	ti	0.0556		91	ır			
						Analyzed: 0	6/04/08 17	:09				
EPA 200.8												
Selenium	0.0276		0.00500	ы	н	0.0278		99	н			ME-01

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPM	S)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060021 - EPA 3015							Wat	er				
Duplicate (8060021-DUP1)			Source: A	805270-01		Analyzed	: 06/04/08 14	:06				
EPA 200.8												
Antimony	0.0151		0.00100	mg/L	1		0.0150			0.6	20%	Q-23
Arsenic	0.0129		0.00100	11	U		0.0131			τ	20%	
Barium	0.00812		0.00100	u	n		0.00819			0.8	20%	
Cadmium	ND		0.00100	n	H		ND				20%	
Chromium	0.0187		0.00100	n n	н		0.0194			4	20%	
Cobalt	0.0259		0.00200	n	"		0.0256			1	20%	
Copper	ND		0.00500	17	n		ND				20%	
Lead	ND		0.00100	D	Ħ		ND				20%	
Molybdenum	0.126		0.00200	и	н		0.126			0	20%	B-01, B
Nickel	0.178		0.00100		н		0.177			0.6`	20%	
Silver	ND		0.00200	n	n		ND				20%	
Zinc	0.0140		0.00500	"	11		0.0144			3	20%	
						Analyzed:	06/04/08 17	:37		•		
EPA 200.8	315		0.0055	n	_		3.75					
Selenium	ND		0.0250	"	5		ND				20%	ME-01
Matrix Spike (8060021-MS1)			Source: A	805270-01		Analyzed:	06/04/08 14	12				
EPA 200.8												
Antimony	0.0617		0.00100	mg/L	1	0.0278	0.0150	168	70-130%			Q-01, Q-23
Arsenic	0.0809		0.00100	,,	,,	0.0556	0.0131	122	19			
Barium	0,0658		0.00100	17	11	*	0.00819	104	ST.			
Cadmium	0.0501		0.00100	U	b	н	ND	90	H			
Chromium	0.0724		0.00100	tt.	n	"	0.0194	95	н			
Cobalt	0.0776		0.00200		н	n	0.0256	94	U			
Copper	0.0579		0.00500	n	н	11	0.00344	98	17			
Lead	0.0487		0.00100	1)	17	•1	0.000700	86	IF.			
Molybdenum	0.181		0.00200	e,	**	н	0.126	100	n			B-01, B
Nickel	0.216		0.00100	n	H	"	0.177	69	*			Q-01
Silver	0.0266		0.00200	n	н	0.0278	ND	96	н			
Zinc	0.0615		0.00500	n	н	0.0556	0.0144	85	11			
						Analyzed:	06/04/08 17:	43				
EPA 200.8												
Selenium	0.0468		0.0250		5	0.0278	ND	169	II .			ME-01

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050297 - Method P	rep: Aq						Wat	ler				
Reference (8050297-SRM1)						Analyzed:	05/29/08 11	:31				
EPA 150.1												
pН	5.99			pH Units	1	6.00		99.8 3,33	3-101.666	55	700	
Reference (8050297-SRM2)						Analyzed:	05/29/08 12	:10				
EPA 150.1												
рН	7,93	***		pH Units	1	8.00		99.1 98.7	5-101.259	4		
Reference (8050297-SRM3)						Analyzed:	05/29/08 14	:20				
EPA 150.1												
pH	6.06			pH Units	1	6.00		101 3.33	3-101.666	5 <u>5</u>		
Reference (8050297-SRM4)						Analyzed: (05/29/08 14	:28		70.	····	
EPA 150.1												
pH	7.96			pH Units	1	8.00		99.5 ₹8.7	5-101.259	4		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 05/30/08 10:19

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8050312 - EPA 1664			_				Wat	ter				
Blank (8050312-BLK1)					Anatyzed: 06/02/08 11:54							
EPA 1664												
HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8050312-BLK2)	Analyzed: 06/02/08 15:50											
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	ND		5.00	mg/L	1							
LCS (8050312-BS1)	Analyzed: 06/02/08 11:54											
EPA 1664												
HEM (Oil and Grease)	34.1		5.00	mg/L	1	34.1		100	78-114%			
LCS (8050312-BS2)						Analyzed: (06/02/08 15	:44				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	15.9	***	5.00	mg/L	1	15.9		100	64-132%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 05/30/08 10:19

SAMPLE PREPARATION INFORMATION

Apex Laboratories

Purgeable Organic Compounds by EPA 624											
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor				
EPA 5030B											
Batch: 8060072											
A805270-01RE1	Water	EPA 624	05/28/08 14:10	06/07/08 15:40	5mL/5mL	5mL/5mL	1.00				
		Semivolatile Org	ganic Compounds by	y EPA 625 Modified (S	iM Analysis)						
	•				Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
EPA 3510C											
Batch: 8050315					-						
A805270-01	Water	EPA 625 SIM	05/28/08 14:10	05/30/08 09:24	1040mL/5mL	1000mL/5mL	0.96				
			Total Metals by EP	'A 200.8 (ICPMS)							
					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
EPA 3015											
Batch: 8060021						-					
A805270-01	Water	EPA 200.8	05/28/08 14:10	06/03/08 10:33	45mL/50mL	45mL/50mL	1.00				
			Conventional Chem	nistry Parameters							
					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
EPA 1664											
Batch: 8050312											
A805270-01	Water	EPA 1664	05/28/08 14:10	05/30/08 08:12	IN/A/1N/A	lN/A/lmL	NA				
A805270-01	Water	EPA 1664-SGT	05/28/08 14:10	05/30/08 08:12	IN/A/1N/A	IN/A/ImL	NA				
					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Method Prep: Aq											
Batch: 8050297		FID (150 -		0.5 10.0 (0.5 1.5 1.5 1.5							
A805270-01	Water	EPA 150.1	05/28/08 14:10	05/29/08 11:15	20mL/20mL	20mL/20mL	NA				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 15 of 17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Portland, OR 97217

Reported: 05/30/08 10:19

Notes and Definitions

Project Manager: Lian Jewell

Qualifiers:

B Analyte detected in the associated extraction blank.

B-01 The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result,

which is negligible according to method criteria.

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

E Estimated Value. The result is above the calibration range of the instrument.

ME-01 Selenium Reporting Limit raised due to krypton interference in argon supply.

Q-01 The percent recovery and/or RPD was outside acceptance limits for this spiked sample. The batch was accepted based on LCS recovery.

Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not

detected in reported client samples. Data quality is not affected.

Q-23 Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Data is likely biased high.

R-04 Reporting levels elevated due to dilution necessary for analysis.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

QC

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy

and precision of the extraction and analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 16 of 17

 VIGOR Industrial, LLC
 Project Number:
 Sub Cat 'B'
 Reported:

 5555 N. Charmel Ave.
 Project Number:
 1-000-0002-100
 Reported:

 Portland, OR, 97217
 Project Manager:
 Lian Jevell
 05/30/08 10:19

CANA.	M. Sanit	Management of the second	¶.										546	F 05-29-08		Mary	See S	Sper sugar	APEX LABS 1333 S.F. Genden Floor, Towned, OR 19733 File 2013-714-2323 File: 2013-716-0333
bascole	5		TAT Responsited (ctirile)										3	2.5	CI a Talvivos	7	S.	0,000	XL/
8	Telm's the	2	260					1				: 1. -	ù	0.0	8	Gugernere.	0	- I	IBS
Genera ?	3	Mark.	S. (4)	Norse Tum Argund Syns]		U		100	Channe	>enano	I garrd
	\ 	9	A DAY	in Are	F			144			-	-			1ABID#	ø.			OK 97.
		50	13H 3r	ung pru									11.1	0529	DATE.	1	HUL		2.13 PM
	1648	Luci 05 27-08 paner	24 HB. 45 HR. 7 10) 4 DAY 5 DAY (5.00) PERSAPE HELD FOR JUDAYS	(TAV) = 5-10-Dustress Days			1				: : : :			ONLI	TUNEE		2	Project Mar	: 303-7;
A SE	. خا		Y	\$ 10-D			-				-	-		S KI	MATRIX		9	Mar	14-2323
X	Sign OBING	San a	other LD Clays	NASA M										ũ	# OF CONTAINERS		Ø		Parc
	12	3 -	R	F	-						_	Ŀ	<u> </u>		NWTPHANCID		1		CH
	il.	W	100			_		_	_		_				NWTPICGA				CHAIN OF CUSTODY
	3		12		-	-					_	-	-	: 1	BYEX	儘	30.		8 2
			17.			-				- 12	-		-	11.11	S250 KEDM VOCS		St.		2
<u>.</u>	3	를 R				-	-					1 1		-	SEGO MAIN VOCS		503-6374859		ે
Jenhan	przed Nace	REMANQUISHED BY		SPECIAL INSTRUCTIONS					· · · · · · · · · · · · · · · · · · ·						#240 VOCs		3	2	Ç.
	5	183		۲. ت											SETO SIM PAH		Ÿ.	Missi Name SUS	號 頂.
, '		ומים		STR									_		2052 PCBs		:::::	i i	¥
				Ç				., ::		: .	TOTEST	NEW YORK		2 ::-:::::::::::::::::::::::::::::	Siff Char. Pest		Š	Ñ	بر
				Ž					21.					,	RCRA Metals (8)	飁	V	5	
		1, 11		.:	Γ				``. `	~: <u>:</u>					Paterity Metals (13)	3	, A	1	
	Tarki	Đ.													M. Sh. As. Bs. Bs. Cd. Ca. Cr. Cs. Ca. Pc. Ph tig Dig. Ms. Ma. Ni. K. St. Ap. Rs. Ti. V. Zs	M. GESA	33.0	3	
					\vdash				1		-				TCLP Menk (8)		Ľ,	D	.
				i.i.			-			7.00		1.1.			1101- COLS		Ezuil:		
					12.5	-			100			***		Σ	1100 FPA 2015	饠		7	-
				Ş					منشبنا					×	EPH 245,1			Project *	HANS.
i i	đ	XECTIVE BAILDON												X	EPA 624			$ \cdot $	71
(mpage)	ritoral Natur	SECENTED BY												×	EPH 6255)M			000-0002-	9
	6	P		٠٧,										×	EPA 150,1PH	闡		[Ç	
		14		٠٠.								-		×	CP#7444	鬱		0	8
			37.		\vdash	Н	ا ا					ننبا		×	NOU POLAGE			Š.	
					-	-	_					2		×	Ter 4 20-00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				<u> </u>
					\vdash			\dashv		2.22				∇	5µ191d= 4500 EPA 33514			100	
	اــــا				1	نيا							لسا			ō,	<u>.</u>	لنا	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Laboratories



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08052097

Report To:	Project Name: A805270										
APEX Laboratories	Site: Tigard, OR										
Darwin Thomas	Site Address:										
12232 SW Garden Płace											
Portland	PO Number:										
OR	State: Oregon										
97223-	State Cert. No.: TX200001										
ph: (503) 718-2323 fax:	Date Reported:										

This Report Contains A Total Of 14 Pages.

Excluding This Page

And

Chain Of Custody



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: APEX Laboratories

Certificate of Analysis Number:

08052097

A805270 Report To: Project Name: Site: Tigard, OR **APEX Laboratories Darwin Thomas** Site Address: 12232 SW Garden Place PO Number: Portland State: Oregon OR 97223-TX200001 State Cert. No.: ph: (503) 718-2323 fax: Date Reported:

This report was revised on June 16, 2008. Sample ID "T-05-29-08" (SPL ID: 08052097-01) was originally reported at a 10x dilution for the Chlordane by EPA Method 608 due to high level of matrix interference on the undiluted analysis. Per your email request, SPL has revised the report and included the undiluted analysis as SPL ID 08052097-02.

This report was revised per your request to report J values between the MDL and PQL.

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 79771 for the Chlordane analysis by EPA Method 608. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08052097 Page 1

6/16/2008

Date

Bethany A. Agarwal

Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08052097

Report To:

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR

97223-

ph: (503) 718-2323

fax: (503) 718-0333

Project Name:

A805270

Site:

Tigard, OR

Site Address:

PO Number: State:

Oregon

State Cert. No.:

TX200001

Fax To:

Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COCID	HOLD
T-05-29-08	08052097-01	Water	5/28/2008 2:10:00 PM	5/30/2008 10:00:00 AM		
T-05-29-08 Re-analysis	08052097-02	Water	5/28/2008 2:10:00 PM	5/30/2008 10:00:00 AM		

Bethany A. Agarwal Senior Project Manager 6/16/2008

Date

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08052097 Page 2 6/16/2008 10:27:39 AM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-05-29-08

Collected: 05/28/2008 14:10

SPL Sample ID:

08052097-01

Site:

Tigard, OR

Analyses/Method	Result	QUAL	MDL	R	ep.Limit	Dil. Fact	or Date Analyzed	Analyst	Seq.#
PESTICIDE/PCBS BY METH	OD 608					MCL	E608 Units	: mg/L	
Chlordane	ND		0.0014		0.005	10	06/05/08 18:06	CJR	4486581
Surr: Decachlorobiphenyl	44.0		0	%	35-124	10	06/05/08 18:06	CJR	4486581
Surr: Tetrachloro-m-xylene	39MI	*	0	%	48-120	10	06/05/08 18:06	CJR	4486581

Prep Method	Prep Date	Prep Initials	Prep Factor
E608	06/02/2008 11:16	N M	1.00

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

TNTC - Too numerous to count

* - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

B/V - Analyte detected in the associated Method Blank above Rep.Limit

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08052097 Page 3 6/16/2008 10:27:49 AM



06/02/2008 14:55

DDW

E200.7/200.8

HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

lient Sample ID:T-05-29-08					Collected: 05/	28/2008	SPL Sample ID: 08052097-0				
					Site: Tigar	d, OR					
Analyses/Method		Result	QUAL	MDL	Rep.Limit	E	il. Fact	or Date Analyzed	Analyst	Seq.#	
MERCURY, TOTAL						MCL		E245.1 Units	: mg/L		
Mercury		ND		7.27E-0	5 0.001		1	06/04/08 13:20	CMC	4482971	
Prep Method	Prep Date		Prep l	nitials	Prep Factor						
E245.1	06/03/2008	14:00	СМС		1.00						
METALS BY METH	OD 200.7, TO	TAL				MCL		E200.7 Units	mg/L		
Tin		0.0498	J	0.0131	0.05		1	06/08/08 1:25	EG	4488322	

Bethen Agand

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

TNTC - Too numerous to count

* - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

B/V - Analyte detected in the associated Method Blank above Rep.Limit

08052097 Page 4 6/16/2008 10:27:50 AM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-05-29-08

Collected: 05/28/2008 14:10

SPL Sample ID:

08052097-01

Site: Tigard, OR

Analyses/Method	Result	QUAL	MDL.	Rep.Limit	Dil. F	actor Date Analyzed	Analyst	Seq.#
CYANIDE, TOTAL					MCL	E335.2 Units	s: mg/L	
Cyanide	ND		0.0015	0.005	1	06/03/08 14:00	ESK	4478818

Prep Method	Prep Date	Prep Initials	Prep Factor
E335.2	06/03/2008 10:00	ESK	1.00

SULFIDE, TOTAL		MCL		E376.2 Units:	mg/L			
Sulfide	6.51	0.38	1.25		25	06/02/08 12:30	A_E	4476875

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

TNTC - Too numerous to count

* - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

B/V - Analyte detected in the associated Method Blank above Rep.Limit

08052097 Page 5 6/16/2008 10:27:50 AM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:T-05-29-08 Re-analysis

Collected: 05/28/2008 14:10

SPL Sample ID:

08052097-02

Site: Tigard, OR

Analyses/Method	Result	Result QUAL MDL Rep.Limit		Dil. F	acto	or Date Analyzed	Analyst	Seq.#		
PESTICIDE/PCBS BY METH	OD 608					MCL		E608 Units	: mg/L	
Chlordane	ND		0.00014		0.0005	1		06/05/08 13:17	CJR	4499052
Surr: Decachlorobiphenyl	2.94 MI	٠	0	%	35-124	1		06/05/08 13:17	CJR	4499052
Surr: Tetrachloro-m-xylene	48.3		0	%	48-120	1		06/05/08 13:17	CJR	4499052

-	Prep Method	Prep Date	Prep Initials	Prep Factor
!	E608	06/02/2008 11:16	N_M	1.00

Bethany A. Agarwal Project Manager

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

J - Estimated Value between MDL and PQL

* - Surrogate Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

B/V - Analyte detected in the associated Method Blank above Rep.Limit

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

TNTC - Too numerous to count

08052097 Page 6 6/16/2008 10:27:50 AM

Quality Control Documentation



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Quality Control Report

APEX Laboratories

A805270

Analysis:

Pesticide/PCBs by Method 608

Method:

E608

WorkOrder:

08052097

Lab Batch ID:

79771

Method Blank

VARG_080605C-4484987

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

RunID: Analysis Date:

06/05/2008 13:37

Analyst: CJR

08052097-01B

T-05-29-08

Preparation Date:

06/02/2008 11:16

Prep By: N_M Method E608

08052097-02A

T-05-29-08 Re-analysis

Analyte	Result	Qual	Rep Limit	MDL
Chlordane	ND		0.00050	0.00014
Surr: Decachlorobiphenyl	51.5		35-124	0
Surr: Tetrachloro-m-xylene	78.3		48-120	0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

VARG_080605C-4484989 Units: 06/05/2008 13:57

Analysis Date: Preparation Date:

06/02/2008 11:16

Analyst: CJR

N_M Method E608 Prep By:

mg/L

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chlordane	0.0100	0.00548	54.8	0.0100	0.00624	62.4	12.9	20	45	119
Surr: Decachlorobiphenyl	1.00	0.960	96.0	1.00	1.11	111	14.5	30	35	124
Surr: Tetrachloro-m-xylene	1.00	0.849	84.9	1.00	0.976	97.6	13.9	30	48	120

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08052097 Page 8

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/16/2008 10:27:52 AM



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories

A805270

Analysis:

Metals by Method 200.7, Total

Method:

E200.7

WorkOrder:

08052097

Lab Batch ID:

79794A

RunID:

Method Blank TJA_080605A-4484868

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

06/05/2008 14:09

Analyst: EG 08052097-01A

Preparation Date:

T-05-29-08

06/02/2008 14:55

Prep By: DD Method E200.7/200.8

Analyte Rep Limit MDL Result Qual 0.0131

Laboratory Control Sample (LCS)

RunID:

TJA_080605A-4484869

Units:

mg/L

Analysis Date: Preparation Date:

06/05/2008 14:14 06/02/2008 14:55 Analyst: EG Prep By:

Method E200.7/200.8

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Tin	1.000	1.026	102.6		85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08052137-01

TJA_080605A-4484871

Units:

mg/L

Analysis Date: Preparation Date:

RuniD:

06/05/2008 14:23 06/02/2008 14:55 Analyst: EG Prep By:

Method E200.7/200.8

Analyte	Sample	Smp	MS	MS	MS %	MS	MSD	MSD	MSD %	MSD	RPD	RPD	RPD	Low	High
	Result	Qual	Spike	Result	Rovry	Qual	Spike	Result	Rcvry	Qual		Qual	Limit	Limít	Limit
!			Added				Added						. 1		i
Tin	ND		1	1 012	101.2		1	1.010	101.0		0 1444	1	20	70	130

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

BN - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08052097 Page 9

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values 6/16/2008 10:27:52 AM calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories A805270

Analysis:

Mercury, Total

Method:

E245.1

WorkOrder:

08052097

Lab Batch ID:

79845

Method Blank

RunID:

HGLC_080604B-4482958

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

06/04/2008 12:48

CMC Analyst:

08052097-01A

T-05-29-08

Preparation Date:

06/03/2008 14:00

Prep By: CMC Method E245.1

Analyte Result Qual Rep Limit 0.001 0.0000727 Mercury

Laboratory Control Sample (LCS)

RunID:

HGLC_080604B-4482959

Units:

Analysis Date: Preparation Date:

06/04/2008 12:51 06/03/2008 14:00

CMC Analyst:

Prep By: CMC Method E245.1

mg/L

	Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Ì	Mercury	0.002000	0.001728	86.41		85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08051774-01

RunID:

HGLC_080604B-4482961

Units: mg/L

Analysis Date: Preparation Date: 06/04/2008 12:55 06/03/2008 14:00

CMC Analyst:

CMC Method E245.1 Prep By:

	Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual		RPD Qual	RPD Limit		~
ſ	Mercury	ND	Н	0.002	0.002104	105.2		0.002	0.001958	97.90		7.174		20	70	130

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve

MI - Matrix Interference

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08052097 Page 10

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values 6/16/2008 10:27:53 AM calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Quality Control Report

APEX Laboratories

A805270

Analysis:

Cyanide, Total

Method:

E335.2

WorkOrder:

08052097

Lab Batch ID:

79830

Method Blank

Units:

Lab Sample ID

Client Sample ID

RunID: Analysis Date: WET_080603J-4478814

mg/L ESK

08052097-01C

Samples in Analytical Batch:

06/03/2008 14:00

Analyst:

T-05-29-08

Preparation Date:

06/03/2008 10:00

Prep By: ESK Method E335.2

Analyte	Result	Qual	Rep Limit	MDL
Cyanide	ND		0.0050	0.0015

Laboratory Control Sample (LCS)

RunID:

WET_080603J-4478815

06/03/2008 10:00

Units:

mg/L

Analysis Date: Preparation Date: 06/03/2008 14:00

ESK Analyst:

Prep By: ESK Method E335.2

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Cyanide	0.2000	0.1950	97.52		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

RuniD:

08052097-01

WET_080603J-4478819

Units:

mg/L

ESK

Analysis Date: Preparation Date: 06/03/2008 14:00 06/03/2008 10:00 Analyst: Ргер Ву:

ESK Method E335.2

	Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Revry	MSD Qual	RPD	RPD Qual	RPD Limit		High Limit
Су	anide	ND		0.2	0.1950	97.52		0.2	0.2072	103.6		6.051		20	75	

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

MI - Matrix Interference

E - Estimated Value exceeds calibration curve J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08052097 Page 11

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/16/2008 10:27:53 AM



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Quality Control Report

APEX Laboratories A805270

Analysis:

Sulfide, Total

Method:

RunID:

E376.2

WorkOrder:

08052097

Lab Batch ID:

R239791

Method Blank

WET_080602J-4476855

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

06/02/2008 12:30

Analyst: A_E 08052097-01D

T-05-29-08

Analyte	Result	Qual	Rep Limit	MDL
Sulfide	ND		0.050	0.0152

Laboratory Control Sample (LCS)

RunID:

WET_080602J-4476856

Units:

mg/L

Analysis Date:

06/02/2008 12:30

Analyst:

A_E

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Sulfide	0.2500	0.2316	92.62		89	108

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08052074-02

RunID:

WET_080602J-4476877

mg/L

Analysis Date:

06/02/2008 12:30

Analyst: A_E

Units:

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rovry	MS Qual	MSD Spike Added	MSD Result	MSD % Rovry	MSD Qual	RPD	RPD Qual	RPD Limit	Limit	High Limit
Sulfide	0.03020	J	0.25	0.2699	95.89		0.25	0.2675	94.93		0.8931		12	84	115

Qualifiers:

ND/U - Not Detected at the Method Detection Limit

E - Estimated Value exceeds calibration curve

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

B/V - Analyte detected in the associated Method Blank

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08052097 Page 12

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/16/2008 10:27:53 AM

Sample Receipt Checklist And Chain of Custody



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

	08052097 5/30/2008 10:00:00 AM		Received By: Carrier name:	BB Fedex-Standard Overnight
Temperature;	3.0°C		Chilled by:	Water Ice
1. Shipping container/coo	eler in good condition?	Yes 🗹	No 🗆	Not Present
2. Custody seals intact or	shippping container/cooler?	Yes	No 🗆	Not Present ⊻
3. Custody seals intact or	sample bottles?	Yes	No 🗆	Not Present ∑
4. Chain of custody prese	nt?	Yes 🔽	No 🗌	
5. Chain of custody signe	d when relinquished and received?	Yes 🔽	No 🗆	
6. Chain of custody agree	s with sample labels?	Yes 🔽	No 🗆	
7. Samples in proper cont	ainer/bottle?	Yes 🔽	No 🗆	
8. Sample containers inta	ct?	Yes 🔽	No 🗆	
9. Sufficient sample volun	ne for indicated test?	Yes 🗹	No 🗆	
10. All samples received wi	thin holding time?	Yes 🗹	No 🗆	
11. Container/Temp Blank	temperature in compliance?	Yes 🗹	No 🗆	
12. Water - VOA vials have	zero headspace?	Yes 🗌	No □ VOA V	/ials Not Present
13. Water - Preservation ch	ecked upon receipt (except VOA*)?	Yes 🗌	No 🗆	Not Applicable
*VOA Preservation Che	cked After Sample Analysis			
SPL Representative	::[Contact Date & T	ime:	
Client Name Contacted	:]		
Non Conformance Issues:				
Client Instructions:				

SUBCONTRACT ORDER

0805097

Apex Laboratories A805270

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager: Darwin Thomas

(E)500 mL Poly - NaOH

(F)250 mL Poly - NaOH/Zinc Acetate (N)250 mL Poly - Nitric (HNO3)

RECEIVING LABORATORY:

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77054 Phone: (800) 969-6775 Fax: (713) 660-8975

Sample Name: T-05-29-08 Water Sampled: 05/28/08 14:10 (A805270-01) Analysis Due Expires Comments 245.1 Hg (Mercury) - Total (H2O) 06/06/08 17:00 06/25/08 14:10 SPI. limit 0.1 mg/L 06/06/08 17:00 608 PCBs 06/04/08 14:10 SPL Chlordane only, limit 0.03 mg/Liter 06/06/08 17:00 06/11/08 14:10 Cyanide, Total SPL limits 1.2 mg/L 06/06/08 17:00 Sn (Tin) - 200.7 - Total 11/24/08 14:10 SPL limts 0.146 mg/L 06/06/08 17:00 06/04/08 14:10 Sulfide (376.2) SPL 4.0 mg/L Containers Supplied: (C)1 L Amber Glass - Non Preserved

eleased By Date

B.Blauv Received By 5/30/08 10:00

Date

Released By

Date

Received By

Date

Page 1 of 1





Water Pollution Control Laboratory

6543 North Burlington Avenu	<u> </u>	3-5452 Dean Marriott, Directo ARGE REQUEST FORM	or Dan Saltzman, Commissioner
Waste Generator Information	Bill oil Bisoin	Permit Contact Information	
Source Name	Cascade General	Name	Alan Sprott
		Company Name	Cascade General
Source Address	5555 N. Channel	Address	5555 N. Channel Ave
	Ave. Portland, OR		
	97217		Portland, OR 97217
		Telephone Number	503/247-1672
		Facsimile Number	503/247-6050
Batch Information	CWTA	Email Address	asprott@casgen.com
Batch Number:		Proposed Discharge	100,000 gal
D D - 4 - /T'	7/07/05 0000	Volume:*	
Request Date/Time:	7/07/05 0800	Actual Discharge Volume:	
Date Proposed:	7/11/05	Sampling Location:	
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
_		Wastewater Characteristics	
CWT-A	orating waste water ee	The state of the s	,
<u> </u>		evelops. Flow will be held	¬ ~-
Are the analysis sheets, QA	A/QC and chain of cust	tody attached? YES	or NO (circle one)
a a. I			
City Use Only	VEG NO	D.4 CA 1	/ /2005
Batch discharge approval:	YES or NO	Date of Approval:	/ /2005
Approved By: Chris C	Collett		
Batch Discharge Denied I	Due to the Following:		
Daten Discharge Demed 1	oue to the ronowing.		
		t and all attachments were prepa	
		ed to ensure that qualified pers y inquiry of the person or person	
		g the information, the information	
of my knowledge and	l belief, true, accurate, and	complete. I am aware that there	re are significant penalties
for submitting false in	formation, including the po	essibility of fine and imprisonme	nt for knowing violations.

Signature: Date:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRIAL WASTEWATER DISCHARG
SELF-MONITORING REPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

August 2005

[20] 20] [[2] 4 4 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ce Control Division Use Only Org 2159	
Date Postmarked/Received	Date Entered	
	Entered By:	
Comments:		

SAMPLE DATE			SAMPLE	TYPE			
8/01/05	CV	VT2B	GRA	В			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		DL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	220.0 mg/I	L 2	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	107.0 mg/I	L 2	2.0	110 mg/L	N/A	
PH	EPA 150.1	10.0 SU			5.0 - 11.5	N/A	
Cyanide (Total)	SM 4500	0.015 mg/L	0.0	0030	1.2 mg/L	N/A	
Sulfide (Dissolved)	EPA 376.1	ND mg/L	1	.0	4.0 mg/L	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L	0.0	0005	0.50 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L	0.	012	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND mg/L	0.	010	1.0 mg/L	N/A	
Chlordane	EPA 625	ND mg/L	0.	004	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L	0.0	0005	0.20 mg/L	N/A	
Chloroform	EPA 624	ND mg/L	0.0	0005	0.20 mg/L	N/A	
Nitrobenzene	EPA 625	ND mg/L	0.	006	2.0 mg/L	N/A	
Pentachlorophenol	EPA 625	ND mg/L	0	.03	0.04 mg/L N/A		
Trichloroethylene	EPA 624	ND mg/L	0.0	0005	0.20 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
8/01/05	CV	VT2B	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTEI CONCENTRAT		LI DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND mg/L	0.020	0.249 mg/L	0.206 mg/L	
Arsenic (Total)	EPA 200.7	ND mg/L	0.010	0.162 mg/L	0.104 mg/L	
Cadmium (Total)	EPA 200.7	ND mg/L	0.003	0.474 mg/L	0.0962 mg/L	
Chromium (Total)	EPA 200.7	ND mg/L	0.005	5.0 mg/L	3.07 mg/L	
Cobalt (Total)	EPA 200.7	ND mg/L	0.01	0.192 mg/L	0.124 mg/L	
Copper (Total)	EPA 200.7	ND mg/L	0.005	3.7 mg/L	1.06 mg/L	
Lead (Total)	EPA 200.7	ND mg/L	0.005	0.7 mg/L	0.283 mg/L	
Mercury (Total)	EPA 245.7	ND mg/L	0.00005	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.7	ND mg/L	0.03	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	ND mg/L	0.020	2.8 mg/L	1.45 mg/L	
Selenium (Total)	EPA 200.7	ND mg/L	0.10	0.6 mg/L	0.408 mg/L	
Silver (Total)	EPA 200.7	ND mg/L	0.010	0.120 mg/L	0.0351 mg/L	
Tin (Total)	EPA 200.7	0.05 mg/L	0.04	0.409 mg/L	0.120 mg/L	
Titanium (Total)	EPA 200.7	ND mg/L	0.05	0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)	EPA 200.7	ND mg/L	0.010	0.218 mg/L	0.0662 mg/L	
Zinc (Total)	EPA 200.7	0.022 mg/L	0.003	2.87 mg/L	0.641 mg/L	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:



CLIENT: Cascade General

ATTN: Alan Sprott

P.O. Box 4367 Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test - A

Subcat. A

PROJECT NUMBER: 85806

PHONE: (503) 703-0875

SUBMITTED: 06/28/05 15:15

FAX: (503) 247-6050

REPORT DATE: 07/07/05 14:37

REPORT NUMBER: 5062806

PAGE: 1 OF 12

CISAMPLE	CLIENTS ID#		DATE		MATRIX	_		
5062806-01	T-11 062805		06/28	3/2005 1515	Water	_		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
5062806-01	SAMPLE ID: T-11 (062805						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B-C	CYANIDE	0.068	mg/L	0.0030	MRP	07/06/2005 13:38	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	. 59	mg/L	2	MRP	07/01/2005 15:56	
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	129.9	mg/L	2.0	MRP	07/01/2005 14:13	
PH	EPA 150.1/9040	pН	10.3	SU		MRP	06/29/2005 08:34	
		TEMPERATURE (C)	21.7	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	0.050	MRP	06/29/2005 09:04	
Total Mercury by	y Cold Vapor Atomi	c Absorption						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	BKB	07/07/2005 14:03	
Total Metals by	Inductively Coupled	I Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	BKB	06/29/2005 12:06	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	вкв	06/29/2005 12:06	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	вкв	06/29/2005 12:06	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	вкв	06/29/2005 12:06	
COBALT - ICP		COBALT	ND	mg/L	0.010	вкв	06/29/2005 12:06	
COPPER - ICP		COPPER	0.048	mg/L	0.005	вкв	06/29/2005 12:06	
LEAD - ICP		LEAD	ND	mg/L	0.005	ВКВ	06/29/2005 12:06	
MOLYBDENUM - ICP		MOLYBDENUM	ND	mg/L	0.005	ВКВ	06/29/2005 12:06	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	вкв	06/29/2005 12:06	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	вкв	06/29/2005 12:06	
SILVER - ICP		SILVER	ND	mg/L	0.010	вкв	06/29/2005 12:06	
TIN - ICP		TIN	0.13	mg/L	0.040	ВКВ	06/29/2005 12:24	
TITANIUM - ICP		TITANIUM	ND	mg/L	0.050	вкв	06/29/2005 12:06	
VANADIUM - ICP		VANADIUM	ND	mg/L	0.010	вкв	06/29/2005 12:06	
ZINC - ICP		ZINC	0.026	mg/L	0.003	ВКВ	06/29/2005 12:06	

Volatile Organics by Gas Chromatography/Mass Spectroscopy

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInspection.com



REPORT DATE	: 07/07/05 14:3	REPORT N	PAGE: 2 OF 12					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
5062806-01	SAMPLE ID: T-11	062805						
Volatile Organic	s by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	0.0157	mg/L	0.0100	PA	06/30/2005 18:38	
		CHLOROBENZENE	ND	mg/L	0.0005			
		CHLOROFORM	ND	mg/L	0.0005			
		1,2-DICHLOROETHANE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	100 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	99.3 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	115 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	103 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chr	omatography/Mass Spectroscopy						
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.022	ZZZ	07/01/2005 23:19	
		Surrogate: 2,4,6-Tribromophenol	89.0 %	%RECOVERY	50-150			
B/N SEMIVOL 625		2,4-DINITROTOLUENE	ND	mg/L	0.0090	ZZZ	07/01/2005 23:19	
		NITROBENZENE	ND	mg/L	0.0045			
		Surrogate: 2-Fluorobiphenyl	64.9 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	101 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chr	omatography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0018	DM	07/07/2005 10:18	
		AROCHLOR 1221	ND	mg/L	0.0018			
		AROCHLOR 1232	ND	mg/L	0.0018			
		AROCHLOR 1242	ND	mg/L	0.0018			
		AROCHLOR 1248	ND	mg/L	0.0018			
		AROCHLOR 1254	ND	mg/L	0.0018			
		AROCHLOR 1260	ND	mg/L	0.0018			
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.0023	ZZZ	07/01/2005 23:19	



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 3 OF 12

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5F29003 - General Pro	eparation							•		
QC SAMPLE: Reference (5F29003-SRN	I1)				Prepared 8	& Analyzeo	d: 06/29/05			
pH	5.09		SU	5.00		102	97.5-102			
QC SAMPLE: Reference (5F29003-SRM	12)				Prepared 8	& Analyzed	d: 06/29/05			
pH	7.97		SU	8.00		99.6	97.5-102			
BATCH: Batch 5G01003 - General Pr	eparation									
QC SAMPLE: Blank (5G01003-BLK1)					Prepared 8	& Analyzed	d: 07/01/05			
TOTAL OIL AND GREASE	ND	2.0	mg/L							
QC SAMPLE: _LCS (5G01003-BS1)					Prepared 8	& Analyzed	d: <u>07/01/05</u>			
TOTAL OIL AND GREASE	5.7	2.0	mg/L	32.4		17.6	79-114			A-01a
QC SAMPLE: LCS Dup (5G01003-BSD1)				Prepared 8	& Analyze	d: 07/01/05			
TOTAL OIL AND GREASE	9.2	2.0	mg/L	32.4		28.4	79-114	47.0	18	A-01a
BATCH: Batch 5G01012 - General Pr	eparation									
QC SAMPLE: Blank (5G01012-BLK1)					Prepared 8	& Analyze	d: 07/01/05			
NONPOLAR OIL & GREASE	ND	2	mg/L							
QC SAMPLE: LCS (5G01012-BS1)					Prepared 8	& Analyze	d: 07/01/05			
NONPOLAR OIL & GREASE	2.50	2	mg/L	16.4		15.2	66-114			A-01
QC SAMPLE: LCS Dup (5G01012-BSD1	1)				Prepared 8	& Analyze	d: 07/01/05			
NONPOLAR OIL & GREASE	2.90	2	mg/L	16.4		17.7	66-114	14.8	24	A-01



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 4 OF 12

General Bench Analysis - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5G06009 - General Prep	aration									
QC SAMPLE:	Duplicate (5G06009-DUP1)		S	ource: 5062	906-01	Prepared	& Analyzed	07/06/05			
CYANIDE		0.00350	0.0030	mg/L		0.0031			12.1	20	
QC SAMPLE:	Reference (5G06009-SRM1)					Prepared (& Analyzed	07/06/05			
CYANIDE		114	0.0030	mg/L	100		114	85-115			



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 5 OF 12

Total Mercury by Cold Vapor Atomic Absorption - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 5G07006 - ***Metals Pre	p***									
QC SAMPLE:	Calibration Blank (5G07006	-CCB1)				Prepared	& Analyzed	: 07/07/05			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (5G07006	-CCB2)				Prepared	& Analyzed	: 07/07/05			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (5G07006-SRM1)	1				Prepared	& Analyzed	: 07/07/05			
MERCURY		0.000198	0.000050	mg/L	0.00020		99.0	0-200			
QC SAMPLE:	Reference (5G07006-SRM2)	1				Prepared	& Analyzed	: 07/07/05			
MERCURY		0.000189	0.000050	mg/L	0.00020		94.5	0-200			



REPORT DATE: 07/07/05 14:37 **REPORT NUMBER:5062806** PAGE: 6 OF 12

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	:h 5F29005 <u>- ***</u> M	etals Prep***									
QC SAMPLE:	Calibration Blank	(5F29005-CCB1)				Prepared	& Analyzed	1: 06/29/05			
ANTIMONY		0.030	0.018	mg/L							
ARSENIC		ND	0.009								
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004	17							
COBALT		ND	0.0090								
COPPER		ND	0.004								
LEAD		ND	0.004	п							
MOLYBDENUM		0.012	0.004	n							
NICKEL		ND	0.018	D							
SELENIUM		ND	0.090								
SILVER		ND	0.009								
TIN		ND	0.036	n							
TITANIUM		ND	0.045	**							
VANADIUM		ND	0.0090	*							
ZINC		ND	0.003	**							
QC SAMPLE:	Calibration Blank	(5F29005-CCB2)				Prepared	& Analyzed	: 06/29/05			
ANTIMONY		ND	0.018	mg/L		·					
ARSENIC		ND	0.009								
CADMIUM		0.003	0.003	"							
CHROMIUM		ND	0.004	•							
COBALT		ND	0.0090								
COPPER		0.004	0.004								
LEAD		ND	0.004								
MOLYBDENUM		0.010	0.004								
NICKEL		ND	0.018	**							
SELENIUM		ND	0.090	**							
SILVER		ND	0.009	•							
TIN		ND	0.036	**							
TITANIUM		ND	0.045	n n							
VANADIUM		ND	0.0090	"							
ZINC		ND	0.003								



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 7 OF 12

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5F29005 - ***Metals Pre	p***									
QC SAMPLE:	Reference (5F29005-SRM1)					Prepared (& Analyzed	1: 06/29/05			
ANTIMONY		1.04	0.018	mg/L	1.00		104	85-115			
ARSENIC		1.00	0.009	**	1.00		100	85-115			
CADMIUM		0.984	0.003	n	1.00		98.4	85-115			
CHROMIUM		1.02	0.004	"	1.00		102	85-115			
COBALT		1.00	0.0090	"	1.00		100	85-115			
COPPER		1.01	0.004	"	1.00		101	85-115			
LEAD		1.04	0.004	**	1.00		104	85-115			
MOLYBDENUM		1.02	0.004	11	1.00		102	85-115			
NICKEL		1.03	0.018	"	1.00		103	85-115			
SELENIUM		0.969	0.090	11	1.00		96.9	85-115			
TITANIUM		0.990	0.045	11	1.00		99.0	85-115			
VANADIUM		1.00	0.0090	10	1.00		100	85-115			
ZINC		0.970	0.003	"	1.00		97.0	85-115			
QC SAMPLE:	Reference (5F29005-SRM2)					Prepared 6	& Analyzed	: 06/29/05			
ANTIMONY		0.999	0.018	mg/L	1.00		99.9	85-115			
ARSENIC		0.997	0.009	н	1.00		99.7	85-115			
CADMIUM		1.08	0.003	11	1.00		108	85-115			
CHROMIUM		1.03	0.004	n	1.00		103	85-115			
COBALT		0.982	0.0090	"	1.00		98.2	85-115			
COPPER		1.02	0.004	"	1.00		102	85-115			
LEAD		1.05	0.004	**	1.00		105	85-115			
MOLYBDENUM		1.02	0.004	**	1.00		102	85-115			
NICKEL		1.04	0.018	"	1.00		104	85-115			
\$ELENIUM		1.01	0.090	"	1.00		101	85-115			
TITANIUM		0.990	0.045	"	1.00		99.0	85-115			
VANADIUM		1.00	0.0090	"	1.00		100	85-115			
ZINC		0.980	0.003		1.00		98.0	85-115			

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 8 OF 12

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5F29005 - ***Metals Prej	p***									
QC SAMPLE:	Reference (5F29005-SRM3)					Prepared	& Analyzed	: 06/29/05			
SILVER		0.508	0.009	mg/L	0.500	-	102	85-115			
QC SAMPLE:	Reference (5F29005-SRM4)					Prepared	& Analyzed	: 06/29/05			
SILVER		0.519	0.009	mg/L	0.500		104	85-115			
QC SAMPLE:	Reference (5F29005-SRM5)					Prepared	& Analyzed	: 06/29/05			
TIN		0.996	0.036	mg/L	1.00		99.6	90-110			
QC SAMPLE:	Reference (5F29005-SRM6)	_				Prepared	& Analyzed	: 06/29/05			
TIN		1.03	0.036	mg/L	1.00		103	90-110			



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 9 OF 12

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5F30002 - Volatiles										
QC SAMPLE: Blank (5F30002-BLK1)					Prepared 8	& Analyzed	: 06/30/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	МD	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	II II							
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Dibromofluoromethane	0.008374		"	0.00809		103	50-150			
Surrogate: Fluorobenzene	0.008299		"	0.00809		103	50-150			
Surrogate: Chlorobenzene-d5	0.008088		"	0.00809		99.9	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009261		,,	0.00809		114	50-150			
QC SAMPLE: Blank (5F30002-BLK2)				-	Prepared 8	& Analyzed	: 06/30/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	11							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	н							
Surrogate: Dibromofluoromethane	0.008806		"	0.00809		109	50-150			
Surrogate: Fluorobenzene	0.007838		"	0.00809		96.8	50-150			
Surrogate: Chlorobenzene-d5	0.008810		"	ō.00809		109	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009030		"	0.00809		112	50-150			
QC SAMPLE: Reference (5F30002-SRM	1)			_	Prepared 8	& Analyzed	: 06/30/05			
CHLOROBENZENE	0.01095	0.0005	mg/L	0.01000		110	50-150			
CHLOROFORM	0.01040	0.0005		0.01000		104	50-150			
1,2-DICHLOROETHANE	0.009450	0.0005		0.01000		94.5	50-150			
TRICHLOROETHYLENE	0.009450	0.0005	*	0.01000		94.5	50-150			
Surrogate: Dibromofluoromethane	0.009125		"	0.00809		113	50-150			
Surrogate: Fluorobenzene	0.008105		н	0.00809		100	50-150			
Surrogate: Chlorobenzene-d5	0.009475		n	0.00809		117	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009381		n	0.00809		116	50-150			



REPORT DATE: 07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 10 OF 12

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5F30002 - Volatiles	<u> </u>								
QC SAMPLE: Reference (5F30002-S	RM2)				Prepared: 06/30/05	Analyzed: 0	7/01/05		
CHLOROBENZENE	0.01230	0.0005	mg/L	0.01000	123	50-150			
CHLOROFORM	0.01060	0.0005	**	0.01000	106	50-150			
1,2-DICHLOROETHANE	0.01043	0.0005	10	0.01000	104	50-150			
TRICHLOROETHYLENE	0.01065	0.0005	"	0.01000	106	50-150			
Surrogate: Dibromofluoromethane	0.008915		п	0.00809	110	50-150			
Surrogate: Fluorobenzene	0.008023		n	0.00809	99.1	<i>50-150</i>			
Surrogate: Chlorobenzene-d5	0.009436		"	0.00809	117	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009290		"	0.00809	115	50-150			
QC SAMPLE: Reference (5F30002-S	RM3)				Prepared & Analyze	d: 06/30/05			
ACRYLONITRILE	0.09646	0.0100	mg/L	0.1000	96.5	0-200			
Surrogate: Dibromofluoromethane	0.006754		"	0.00809	83.4	50-150			
Surrogate: Fluorobenzene	0.005674		,,	ō.00809	70.1	50-150			
	0.003074			0.00003	, ,	30-730			
Surrogate: Chlorobenzene-d5	0.009084		"	ō.00809	112				
•			"	-		50-150			
Surrogate: Chlorobenzene-d5	0.009084 0.01101		"	ō.00809 ō.00809	112	50-150 50-150			
Surrogate: Chlorobenzene-d5 Surrogate: 1,4-Dichlorobenzene-d4	0.009084 0.01101	0.0100	"	ō.00809 ō.00809	112 136	50-150 50-150 d: 06/30/05			- soler / No t
Surrogate: Chlorobenzene-d5 Surrogate: 1,4-Dichlorobenzene-d4 QC SAMPLE: Reference (5F30002-S	0.009084 0.01101 GRM4)	0.0100	"	ō.00809 ō.00809	112 136 Prepared & Analyze	50-150 50-150 d: 06/30/05 0-200			Alex No.
Surrogate: Chlorobenzene-d5 Surrogate: 1,4-Dichlorobenzene-d4 QC SAMPLE: Reference (5F30002-S ACRYLONITRILE	0.009084 0.01101 SRM4) 0.08642	0.0100	mg/L	0.00809 0.00809 0.1000	112 136 Prepared & Analyze 86.4	50-150 50-150 d: 06/30/05 0-200 50-150			
Surrogate: Chlorobenzene-d5 Surrogate: 1,4-Dichlorobenzene-d4 QC SAMPLE: Reference (5F30002-S ACRYLONITRILE Surrogate: Dibromofluoromethane	0.009084 0.01101 6RM4) 0.08642 0.006340	0.0100	mg/L	0.00809 0.00809 0.1000 0.00809	112 136 Prepared & Analyze 86.4 78.3	50-150 50-150 d: 06/30/05 0-200 50-150			der fist



REPORT DATE: 07/07/05 14:37 REPORT NUMBER:5062806 PAGE: 11 OF 12

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G06011 - *** Organic	Prep ***	-								
QC SAMPLE: Calibration Blank (5G0601	1-CCB1)				Prepared:	07/01/05	Analyzed: (7/06/05		
2,4-DINITROTOLUENE	ND	2.0	mg/L							
NITROBENZENE	ND	0.98	11							
QC SAMPLE: Calibration Blank (5G0601	11-CCB2)				Prepared:	07/01/05	Analyzed: (07/06/05		
2,4-DINITROTOLUENE	ND	2.0	mg/L							
NITROBENZENE	ND	0.98	"							
BATCH: Batch 5G06017 - *** Organic	Prep ***	···								
QC SAMPLE: Calibration Blank (5G0601	7-CCB1)				Prepared 6	& Analyzed	: 07/01/05			
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: 2,4,6-Tribromophenol	49.5		"	40.0		124	50-150			-
QC SAMPLE: Calibration Blank (5G0601	7-CCB2)				Prepared:	07/01/05	Analyzed: 0	7/05/05		
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: 2,4,6-Tribromophenol	51.0		"	40.0		128	50-150			
QC SAMPLE: Reference (5G06017-SRM	1)				Prepared of	& Analyzed	: 07/01/05			
PENTACHLOROPHENOL	25.1	4.9	mg/L	25.0		100	80-120			
Surrogate: 2,4,6-Tribromophenol	24.6		,,	25.0		98.4	50-150			
QC SAMPLE: Reference (5G06017-SRM	2)				Prepared:	07/01/05	Analyzed: 0	07/02/05		
PENTACHLOROPHENOL	20.1	4.9	mg/L	25.0		80.4	80-120			
Surrogate: 2,4,6-Tribromophenol	26.4		"	25.0		106	50-150			



REPORT DATE:

07/07/05 14:37

REPORT NUMBER:5062806

PAGE: 12 OF 12

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/	Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch	n 5G07004 - *** Organ	ic Prep ***									
QC SAMPLE:	Calibration Blank (5G07	'004-CCB1)				Prepared a	& Analyzed	1: 07/01/05			
CHLORDANE		ND	0.65	mg/L							
QC SAMPLE:	Calibration Blank (5G07	7004-CCB2)				Prepared:	07/01/05	Analyzed: 0	7/05/05		
CHLORDANE		ND	0.65	mg/L	•		·-··				
BATCH: Batch	n 5G07005 - *** Organ	ic Prep ***									
QC SAMPLE:	Calibration Blank (5G07	7005-CCB1)				Prepared:	07/01/05	Analyzed: 0	7/07/05		
AROCHLOR 1016		ND	0.49	mg/L							
AROCHLOR 1221		ND	0.49	**							
AROCHLOR 1232		ND	0.49	**							
AROCHLOR 1242		ND	0.49	H							
AROCHLOR 1248		ND	0.49	**							
AROCHLOR 1254		ND	0.49	**							
AROCHLOR 1260		ND	0.49	**							
QC SAMPLE:	Calibration Blank (5G07	7005-CCB2)				Prepared:	07/01/05	Analyzed: 0	7/07/05		
AROCHLOR 1016		ND	0.49	mg/L							
AROCHLOR 1221		ND	0.49	•							
AROCHLOR 1232		ND	0.49	**							
AROCHLOR 1242		ND	0.49	*							
AROCHLOR 1248		ND	0.49	**							
AROCHLOR 1254		ND	0.49	**							
AROCHLOR 1260		ND	0.49	n							
Data Qualifier	s:										
Qualifier	Notes										_
A-01	New standard in a new	solvent- doesn'	t work.								_
A-01a	New standard in new s	oivent- doesn't v	work properly.			•					

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director





6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Source Name Cascade General Name Alan Sprott Company Name Cascade General Source Address Address 5555 N. Channel Ave 5555 N. Channel Ave. Portland, OR 97217 Portland, OR 97217 503/247-1672 Telephone Number Facsimile Number 503/247-6050 **Email Address** Batch Information CWTBasprott@casgen.com Batch Number: Proposed Discharge 750,000 gal Volume:* Actual Discharge Request Date/Time: 7/25/05 1400 Volume: Sampling Location: Date Proposed: 7/26/05 Duration of Discharge: Stop: Sampled? YES NO Start: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: YES or NO Date of Approval: /2005 Approved By: Chris Collett Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRIAL WASTEWATER DISCHARG
SELF-MONITORING REPORT

INDUSTRY NAME: <u>Cascade General</u>

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD: July 2005

For	Industrial	Source	Control	Division	Use	Only
		Oı	rg 2159			

Date Postmarked/Received Date Entered

Dute Entered

Entered By:
Comments:_____

SAMPLE DATE	AMPLE DATE POINT OF COMPLIANCE SAMPLE TYPE		MPLE TYPE				
7/12/05	CWT2B			GRAB			
PARAMETER	ANALYSIS METHOD			MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	104.8 mg/I		2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	26.0 mg/L		2.0	110 mg/L	N/A	
Cyanide	SM 4500	0.014		0.003	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND		1.0	4.0 mg/L	N/A	
pH	EPA 150.1	9.84 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L		0.021	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L		0.01	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND mg/L		0.42	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND mg/L		0.005	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND mg/L		0.005	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND mg/L		0.0033	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L		0.021	0.2 mg/L	N/A	
Chloroform	EPA 624	ND mg/L		0.021	0.2 mg/L	N/A	
n-Decane	EPA 625	0.0061 mg/	L	0.005	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND mg/L		0.005	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND mg/L		0.005	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND mg/L		0.005	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND mg/L		0.025	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	0.0106 mg/l	L	0.0042	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF COMPLIANCE		SAMPLE TYPE				
7/12/05	CW	VT2B	COMPOSITE				
PARAMETER	ANALYSIS METHOD	REPORTEI CONCENTRAT		LIMITS DAILY MONTHLY		COMMENTS	
Antimony (Total)	EPA 200.7	ND mg/L	0.060	0.237 mg/L	0.141 mg/L		
Arsenic (Total)	EPA 200.7	ND mg/L	0.030	0.2 mg/L	N/A		
Barium (Total)	EPA 200.7	0.006 mg/L	0.002	0.427 mg/L	0.281 mg/L		
Cadmium (Total)	EPA 200.7	ND mg/L	0.003	0.7 mg/L	N/A		
Chromium (Total)	EPA 200.7	ND mg/L	0.005	0.947 mg/L 0.487 mg/L			
Cobalt (Total)	EPA 200.7	ND mg/L	0.01	56.4 mg/L	56.4 mg/L 18.8 mg/L		
Copper (Total)	EPA 200.7	0.008 mg/L	0.005	0.405 mg/L	0.301 mg/L		
Lead (Total)	EPA 200.7	ND mg/L	0.005	0.222 mg/L	0.172 mg/L		
Mercury (Total)	EPA 245.7	0.000007 mg/	L 0.000005	0.01 mg/L	N/A		
Molybdenum (Total)	EPA 200.7	1.4 mg/L	0.005	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	0.238 mg/L	0.02	2.8 mg/L	N/A		
Selenium (Total)	EPA 200.7	ND mg/L	0.1	0.6 mg/L	N/A		
Silver (Total)	EPA 200.7	ND mg/L	0.01	0.4 mg/L	N/A		
Tin (Total)	EPA 200.7	0.22 mg/L	0.04	0.4 mg/L	N/A		
Zinc (Total)	E(Total) EPA 200.7 0.19 mg/L		0.003	3.7 mg/L	N/A		

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	



CLIENT: Cascade General

ATTN: Alan Sprott

P.O. Box 4367 Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test -A Subcat

PROJECT NUMBER: 85806

PHONE: (503) 703-0875

FAX: (503) 247-6050

SUBMITTED: 07/13/05 10:05

REPORT DATE: 07/22/05 15:46

REPORT NUMBER: 5071301

PAGE: 1 OF 14

CISAMPLE	CLIENTS ID#	DATE		MATRIX				
5071301-01	T-17 Wastewater Gra	1b	07/12	2/2005 1530	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
5071301-01	SAMPLE ID: T-17	Wastewater Grab						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B-C	CYANIDE	0.014	mg/L	0.0030	MRP	07/20/2005 09:45	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	26	mg/L	2	MRP	07/20/2005 16:15	
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	104.8	mg/L	2.0	MRP	07/20/2005 15:41	
PH	EPA 150.1/9040	рН	9.84	SU		DM	07/13/2005 17:12	
		TEMPERATURE (C)	21.5	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	MRP	07/14/2005 07:56	
Total Mercury by	y Cold Vapor Atomi	c Absorption						
MERCURY CV AF	EPA 245.7/1631	MERCURY	0.000007	mg/L	0.000005	вкв	07/21/2005 12:30	
Total Metals by	Inductively Coupled	i Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.060	ВКВ	07/14/2005 10:57	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.030	ВКВ	07/14/2005 10:57	
BARIUM - ICP		BARIUM	0.006	mg/L	0.002	вкв	07/14/2005 10:57	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	ВКВ	07/14/2005 10:57	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	вкв	07/14/2005 10:57	
COBALT - ICP		COBALT	ND	mg/L	0.010	вкв	07/14/2005 10:57	
COPPER - ICP		COPPER	0.008	mg/L	0.005	вкв	07/14/2005 10:57	
LEAD - ICP		LEAD	ND	mg/L	0.005	вкв	07/14/2005 10:57	
MOLYBDENUM - ICP		MOLYBDENUM	1.4	mg/L	0.005	вкв	07/22/2005 15:30	A-01c
NICKEL - ICP		NICKEL	0.238	mg/L	0.020	вкв	07/14/2005 10:57	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	ВКВ	07/14/2005 10:57	
SILVÉR - ICP		SILVER	ND	mg/L	0.010	ВКВ	07/14/2005 10:57	
TIN - ICP		TIN	0.22	mg/L	0.040	вкв	07/14/2005 11:31	
ZINC - ICP		ZINC	0.19	mg/L	0.003	ВКВ	07/14/2005 10:57	
Volatile Organic	s by Gas Chromato	ography/Mass Spectroscopy		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>			_
VOC 624 Extended	•	ACRYLONITRILE	ND	mg/L	0.4200	PA	07/18/2005 14:50	

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInspection.com



REPORT DATE	: 07/22/05 15:46	REPORT	NUMBER:5071	301			PAGE: 2 OF 1		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES	
5071301-01	SAMPLE ID: T-17 Wa	stewater Grab							
Volatile Organics	by Gas Chromatogra	aphy/Mass Spectroscopy							
VOC 624 Extended	EPA 624	CHLOROBENZENE	ND	mg/L	0.0210	PA	07/18/2005 14:50		
		CHLOROFORM	ND	mg/L	0.0210				
		1,2-DICHLOROETHANE	ND	mg/L	0.0210				
		TRICHLOROETHYLENE	0.0106	mg/L	0.0042			A-01b	
		Surrogate: Dibromofluoromethane	85.8 %	%RECOVERY	50-150				
		Surrogate: Fluorobenzene	78.0 %	%RECOVERY	50-150				
		Surrogate: Chlorobenzene-d5	110 %	%RECOVERY	50-150				
		Surrogate: 1,4-Dichlorobenzene-d4	90.4 %	%RECOVERY	50-150				
Semi-Volatile Org	ganics by Gas Chrom	natography/Mass Spectroscopy							
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.025	DR	07/22/2005 11:48		
		Surrogate: 2,4,6-Tribromophenol	71.6 %	%RECOVERY	50-150				
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.0050	DR	07/22/2005 10:59		
		CARBAZOLE	ND	mg/L	0.0050				
		N-DECANE	0.0061	mg/L	0.0050				
		2,4-DINITROTOLUENE	ND	mg/L	0.010				
		FLUORANTHENE	ND	mg/L	0.0050				
		NITROBENZENE	ND	mg/L	0.0050				
		N-OCTADECANE	ND	mg/L	0.0050				
		Surrogate: 2-Fluorobiphenyl	81.2 %	%RECOVERY	50-150				
		Surrogate: Nitrobenzene-D5	115 %	%RECOVERY	50-150				
Semi-Volatile Org	ganics by Gas Chrom	atography/ECD		_					
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0025	DM	07/21/2005 12:07		
		AROCHLOR 1221	ND	mg/L	0.0025				
		AROCHLOR 1232	ND	mg/L	0.0025				
		AROCHLOR 1242	ND	mg/L	0.0025				
		AROCHLOR 1248	ND	mg/L	0.0025				
		AROCHLOR 1254	ND	mg/L	0.0025				
		AROCHLOR 1260	ND	mg/L	0.0025				
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.0033	DM	07/20/2005 14:42		



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 3 OF 14

General Bench Analysis - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC _Limits	RPD	RPD Limit	Notes
BATCH: Batc	:h 5G15002 - *** DEFAULT	PREP ***									
QC SAMPLE:	Calibration Check (5G15002	2-CCV1)				Prepared	& Analyze	d: 07/13/05			
pН		8.00		SU	8.00		100	97.5-102			
QC SAMPLE:	Reference (5G15002-SRM1)					Prepared	& Analyze	d: 07/13/05			
рН		7.00		SU	7.02		99.7	97.5-102			
QC SAMPLE:	Reference (5G15002-SRM2)	·				Prepared	& Analyze	d: 07/13/05			
рН		7.00		SU	7.02		99.7	97.5-102			
BATCH: Batc	:h 5G20004 - General Prep	aration				····					
QC SAMPLE:	Blank (5G20004-BLK1)					Prepared:	07/15/05	Analyzed: 0	7/20/05		
CYANIDE		ND	0.0030	mg/L							
QC SAMPLE:	Duplicate (5G20004-DUP1)			Source: 507	0602-01	Prepared:	07/15/05	Analyzed: 0	7/20/05		
CYANIDE		0.00600	0.0030	mg/L		0.0070			15.4	20	
QC SAMPLE:	Reference (5G20004-SRM1)					Prepared:	07/15/05	Analyzed: 0	7/20/05		
CYANIDE		101	0.0030	mg/L	100		101	90-110			
BATCH: Batc	ch 5G20017 - General Prep	aration									
QC SAMPLE:	Blank (5G20017-BLK1)					Prepared	& Analyze	d: 07/20/05			
TOTAL OIL AND	GREASE	ND	2.0	mg/L							
QC SAMPLE:	LCS (5G20017-BS1)					Prepared	& Analyze	d: 07/20/05			
TOTAL OIL AND	GREASE	20.0	2.0	mg/L	24.3		82.3	79-114			A-01a



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 4 OF 14

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes	
BATCH: Batch 5G20017 - General Pr	eparation										
QC SAMPLE: LCS Dup (5G20017-BSD1)	Prepared & Analyzed: 07/20/05									
TOTAL OIL AND GREASE	19.9	2.0	mg/L	24.3		81.9	79-114	0.501	18	A-01a	
BATCH: Batch 5G20018 - General Pr	eparation			-							
QC SAMPLE: Blank (5G20018-BLK1)		Prepared & Analyzed: 07/20/05									
NONPOLAR OIL & GREASE	ND	2	mg/L								
QC SAMPLE: LCS (5G20018-BS1)		Prepared & Analyzed: 07/20/05									
NONPOLAR OIL & GREASE	3.80	2	mg/L	12.3		30.9	66-114			A-01	
QC SAMPLE: LCS Dup (5G20018-BSD1)	Prepared & Analyzed: 07/20/05									
NONPOLAR OIL & GREASE	5.60	2	mg/L	12.3		45.5	66-114	38.3	24	A-01	



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 5 OF 14

Total Mercury by Cold Vapor Atomic Absorption - Quality Control

Batch/Sample	Analyte F	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bate	ch 5G21012 - ***Metals Prep*	**							_		
QC SAMPLE:	: Calibration Blank (5G21012-CCB1)					Prepared & Analyzed: 07/21/05					
MERCURY		ND	0.000005	mg/L							
QC SAMPLE:	Calibration Blank (5G21012-Co	CB2)				Prepared of	& Analyzed	: 07/21/05			
MERCURY		ND	0.000005	mg/L							
QC SAMPLE:	Reference (5G21012-SRM1)					Prepared o	& Analyzed	: 07/21/05	_		
MERCURY	0.0	000199	0.000005	mg/L	0.00020		99.5	0-200			
QC SAMPLE:	Reference (5G21012-SRM2)					Prepared	& Analyzed	: 07/21/05	_		
MERCURY	0.0	000201	0.000005	mg/L	0.00020		100	0-200			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 6 OF 14

Total Metals by Inductively Coupled Plasma - Quality Control

Prepared & Analyzed: 07/14/05 Prepared & Analyzed: 07/14/05	Batch/Sample	/Analyte Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " COBALT ND 0.004 " COPPER ND 0.004 " MOLYBORUM ND 0.004 " MOLYBORUM ND 0.004 " SELENIUM ND 0.004 " SILVER ND 0.009 " TIN ND 0.036 " CORAMPLE: Calibration Blank (5G14003-CCB2)	BATCH: Bato	h 5G14003 - ***Metals Prep***	_								
ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD ND 0.004 " NICKEL ND 0.005 " SELENIUM ND 0.009 " SILVER ND 0.009 " TIN ND 0.009 " T	QC SAMPLE:	Calibration Blank (5G14003-CCB1)		_		Prepared	& Analyzed	: 07/14/05			
BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COPPER ND 0.0090 " COPPER ND 0.004 " LEAD ND 0.004 " MOLYBDENUM ND 0.018 " SILVER ND 0.009 " SILVER ND 0.009 " SILVER ND 0.003 " TIN ND 0.036 " ZINC ND 0.003 " ARSENIC ND 0.054 mg/L ARSENIC ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.003 " CHROMIUM ND 0.004 " COPPER ND 0.004 " COPPER ND 0.004 " MOLYBDENUM	ANTIMONY	ND	0.054	mg/L							
SARRIUM	ARSENIC	ND	0.027								
CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD ND 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.036 " ZINC ND 0.036 " ZINC ND 0.036 " ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CABMIUM ND 0.003 " COBALT ND 0.009 " COPER ND 0.004 " COPER ND 0.004 " COPER ND 0.004 " COPER ND 0.004 " CELEDIUM	BARIUM	ND	0.002								
COBALT ND 0.0090 " COPPER ND 0.004 " LEAD ND 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 " ZINC ND 0.003 " ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CADMIUM ND 0.003 " COBALT ND 0.004 " COPPER ND 0.004 " MOLYBOENUM ND 0.004 " NOLECKEL ND 0.004 " SELENIUM ND 0.009 " SILVER	CADMIUM	ND	0.003								
COSPER	CHROMIUM	ND	0.004	"							
LEAD ND 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 " ZINC ND 0.036 " AVINONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COPPER ND 0.004 " LEAD 0.004 " " MOLYBDENUM ND 0.018 " NICKEL ND 0.018 " SELENIUM ND 0.009 " TIN ND 0.009 " TIN ND 0.009 "	COBALT	ND	0.0090	"							
MOLYBDENUM NICKEL ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 " ZINC ND 0.033 " Prepared & Analyzed: 07/14/05 Prepared & Analyzed: 07/14/05	COPPER	ND	0.004	"							
NICKEL	LEAD	ND	0.004	"							
SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 " ZINC ND 0.036 " ZINC ND 0.003 " ZINC ND 0.003 " ZINC ND 0.005 " ZINC ND 0.005 " ANTIMONY ND 0.054 mg/L ARSENIC ND 0.002 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " LEAD 0.004 0.004 " MOLYBOENUM ND 0.004 " MOLYBOENUM ND 0.004 " MICKEL ND 0.008 " SILVER ND 0.009 " SILVER ND 0.009 " TIN ND 0.009 "	MOLYBDENUM	ND	0.004	"							
SILVER	NICKEL	ND	0.018	**							
TIN ND 0.036 " ZINC ND 0.003 " Prepared & Analyzed: 07/14/05 QC SAMPLE: Calibration Blank (5G14003-CCB2) Prepared & Analyzed: 07/14/05 ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 " " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	SELENIUM	ND	0.090	11							
ND	SILVER	ND	0.009	11							
QC SAMPLE: Calibration Blank (5G14003-CCB2) Prepared & Analyzed: 07/14/05 ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	TIN	ND	0.036	11							
ANTIMONY ND 0.054 mg/L ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " ND 0.004 " SELENIUM ND 0.018 " SELENIUM ND 0.0090 " SILVER ND 0.009 " TIN ND 0.009 "	ZINC	ND	0.003	11							
ARSENIC ND 0.027 " BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.009 " SILVER ND 0.009 " TIN ND 0.036 "	QC SAMPLE:	Calibration Blank (5G14003-CCB2)				Prepared of	& Analyzed	: 07/14/05			
ARSENIC ND 0.027 BARIUM ND 0.002 " CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	ANTIMONY	ND	0.054	mg/L							
CADMIUM ND 0.003 " CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 " " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	ARSENIC	ND	0.027	"							
CHROMIUM ND 0.004 " COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	BARIUM	ND	0.002	"							
COBALT ND 0.0090 " COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	CADMIUM	ND	0.003	n							
COPPER ND 0.004 " LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	CHROMIUM	ND	0.004	**							
LEAD 0.004 0.004 " MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	COBALT	ND	0.0090	n							
MOLYBDENUM ND 0.004 " NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	COPPER	ND	0.004	"							
NICKEL ND 0.018 " SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	LEAD	0.004	0.004	**							
SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	MOLYBDENUM	ND	0.004	19							
SELENIUM ND 0.090 " SILVER ND 0.009 " TIN ND 0.036 "	NICKEL	ND	0.018	"							
TIN ND 0.036 "	SELENIUM		0.090								
TIN ND 0.036 "	SILVER	ND	0.009	"							
		ND	0.036								
				n							



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 7 OF 14

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 5G14003 - ***Metals Prep)***									
QC SAMPLE:	Reference (5G14003-SRM1)					Prepared	& Analyzed	: 07/14/05			
ANTIMONY		0.965	0.054	mg/L	1.00		96.5	85-115			
ARSENIC		1.05	0.027		1.00		105	85-115			
CADMIUM		1.04	0.003		1.00		104	85-115			
CHROMIUM		0.995	0.004		1.00		99.5	85-115			
COBALT		0.984	0.0090	"	1.00		98.4	85-115			
COPPER		1.03	0.004		1.00		103	85-115			
LEAD		1.07	0.004		1.00		107	85-115			
MOLYBDENUM		0.983	0.004	"	1.00		98.3	85-115			
NICKEL		1.04	0.018	"	1.00		104	85-115			
SELENIUM		0.997	0.090	•	1.00		99.7	85-115			
ZINC		1.06	0.003	**	1.00		106	85-115			
QC SAMPLE:	Reference (5G14003-SRM2)					Prepared	& Analyzed	: 07/14/05			
ANTIMONY		0.971	0.054	mg/L	1.00		97.1	85-115			
ARSENIC		0.965	0.027	**	1.00		96.5	85-115			
CADMIUM		0.958	0.003	11	1.00		95.8	85-115			
CHROMIUM		0.935	0.004		1.00		93.5	85-115			
COBALT		1.06	0.0090	**	1.00		106	85-115			
COPPER		1.04	0.004	"	1.00		104	85-115			
LEAD		1.02	0.004		1.00		102	85-115			
MOLYBDENUM		0.933	0.004	"	1.00		93.3	85-115			
NICKEL		1.00	0.018	**	1.00		100	85-115			
SELENIUM		0.993	0.090		1.00		99.3	85-115			
ZINC		1.08	0.003	н	1.00		108	85-115			
QC SAMPLE:	Reference (5G14003-SRM3)					Prepared	& Analyzed	: 07/14/05			
BARIUM		0.982	0.002	mg/L	1.00		98.2	85-115			
SILVER		0.538	0.009		0.500		108	85-115			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 8 OF 14

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5G14003 - ***Metals Pre	p***									
QC SAMPLE:	Reference (5G14003-SRM4)					Prepared	& Analyzed	: 07/14/05			
BARIUM		1.06	0.002	mg/L	1.00		106	85-115			
SILVER		0.538	0.009	υ	0.500		108	85-115			
QC SAMPLE:	Reference (5G14003-SRM5)					Prepared	& Analyzed	: 07/14/05			
TIN		1.04	0.036	mg/L	1.00		104	90-110			
QC SAMPLE:	Reference (5G14003-SRM6)					Prepared	& Analyzed	: 07/14/05			
TIN		0.960	0.036	mg/L	1.00		96.0	90-110			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 9 OF 14

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G20001 - Volatiles										
QC SAMPLE: Blank (5G20001-BLK1)					Prepared a	& Analyzed	: 07/18/05			
ACRYLONITRILE	ND	0.1000	mg/L							
CHLOROBENZENE	ND	0.0005	**							
CHLOROFORM	ND	0.0005	11							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.007230		"	0.00809		89.3	50-150			
Surrogate: Fluorobenzene	0.006461		"	0.00809		79.8	50-150			
Surrogate: Chlorobenzene-d5	0.009454		n	0.00809		117	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008633		"	ō.00809		107	50-150			
QC SAMPLE: Blank (5G20001-BLK2)					Prepared a	& Analyzed	: 07/18/05			
ACRYLONITRILE	ND	0.1000	mg/L							
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.006150	1,000	"	0.00809		76.0	50-150			
Surrogate: Fluorobenzene	0.005710		"	0.00809		70.5	50-150			
Surrogate: Chlorobenzene-d5	0.008585		"	0.00809		106	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006766		"	ō.00809		83.6	50-150			
QC SAMPLE: Reference (5G20001-SRM	11)				Prepared 8	& Analyzed	: 07/18/05			
CHLOROBENZENE	0.01164	0.0005	mg/L	0.01000		116	50-150			
CHLOROFORM	0.01019	0.0005	"	0.01000		102	50-150			
1,2-DICHLOROETHANE	0.01051	0.0005	n	0.01000		105	50-150			
TRICHLOROETHYLENE	0.01113	0.0005	11	0.01000		111	50-150			
Surrogate: Dibromofluoromethane	0.008456		"	0.00809		104	50-150			
Surrogate: Fluorobenzene	0.008309			0.00809		103	50-150			
Surrogate: Chlorobenzene-d5	0.009718		"	ō.00809		120	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009870		"	ō.00809		122	50-150			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 10 OF 14

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G20001 - Volatile	es									
QC SAMPLE: Reference (5G20001-	SRM2)				Prepared 8	Analyzed	: 07/18/05			
CHLOROBENZENE	0.01012	0.0005	mg/L	0.01000		101	50-150			
CHLOROFORM	0.008830	0.0005	**	0.01000		88.3	50-150			
1,2-DICHLOROETHANE	0.01060	0.0005	**	0.01000		106	50-150			
TRICHLOROETHYLENE	0.009740	0.0005	**	0.01000		97.4	50-150			
Surrogate: Dibromofluoromethane	0.006364		"	0.00809		78.6	50-150	,		
Surrogate: Fluorobenzene	0.006230		"	0.00809		77.0	50-150			
Surrogate: Chlorobenzene-d5	0.008332		•	0.00809		103	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007474		,,	0.00809		92.3	50-150			
QC SAMPLE: Reference (5G20001-	SRM3)				Prepared: (07/18/05	Analyzed: 0	7/19/05		
ACRYLONITRILE	ND	0.1000	mg/L	0.1000			0-200			
Surrogate: Dibromofluoromethane	0.005093		"	0.00809		62.9	50-150			
Surrogate: Fluorobenzene	0.004505		"	0.00809		55 . 7	50-150			
Surrogate: Chlorobenzene-d5	0.007438		"	ō.00809		91.9	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007331		n	ō.00809		90.6	50-150			
QC SAMPLE: Reference (5G20001-	SRM4)				Prepared: (07/18/05 A	Analyzed: 0	7/19/05		
ACRYLONITRILE	ND	0.1000	mg/L	0.1000			0-200			
Surrogate: Dibromofluoromethane	0.005165		"	0.00809		63.8	50-150			
Surrogate: Fluorobenzene	0.004344		"	õ.00809		53.7	50-150			
Surrogate: Chlorobenzene-d5	0.008066		"	ō.00809		99.6	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007704		17	ō.00809		95.2	50-150			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 11 OF 14

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G20010 - *** Org	anic Prep ***									
QC SAMPLE: Calibration Blank (50	G20010-CCB1)				Prepared:	07/18/05	Analyzed:	07/22/05		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.98	mg/L							
CARBAZOLE	ND	0.98	*							
N-DECANE	ND	0.98								
2,4-DINITROTOLUENE	ND	2.0	••							
FLUORANTHENE	ND	0.98	*							
NITROBENZENE	ND	0.98	**							
N-OCTADECANE	ND	0.98	•							
Surrogate: 2-Fluorobiphenyl	18.6			20.0		93.0	50-150			
Surrogate: Nitrobenzene-D5	19.2		D	20.0		96.0	50-150			
QC SAMPLE: Calibration Check (5	G20010-CCV1)				Prepared:	07/18/05	Analyzed: (07/22/05		
BIS(2-ETHYLHEXYL)PHTHALATE	28.3	0.98	mg/L	25.0		113	80-120			
CARBAZOLE	NĐ	0.98	н	50.0			50-150			
N-DECANE	21.6	0.98		25.0		86.4	50-150			
2,4-DINITROTOLUENE	26.1	2.0		25.0		104	80-120			
FLUORANTHENE	24.6	0.98	17	25.0		98.4	80-120			
NITROBENZENE	20.7	0.98	,,	25.0		82.8	80-120			
N-OCTADECANE	22.8	0.98		24.8		91.9	50-150			
Surrogate: 2-Fluorobiphenyl	24.7			25.0		98.8	50-150			
Surrogate: Nitrobenzene-D5	27.1		"	25.0		108	50-150			
BATCH: Batch 5G20016 - *** Org	an <u>ic</u> Prep ***					•				
QC SAMPLE: Calibration Blank (50	G20016-CCB1)				Prepared:	07/18/05	Analyzed: (07/22/05		
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: Phenol-d6	34.4		"	50.0		68.8	50-150			
Surrogate: 2,4,6-Tribromophenol	54.9		•	50.0		110	50-150			

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 12 OF 14

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G20016 - *** Or	ganic Prep ***									
QC SAMPLE: Calibration Check (5G20016-CCV1)				Prepared:	07/18/05	Analyzed:	07/22/05		
PENTACHLOROPHENOL	25.8	4.9	mg/L	25.0		103	80-120			
Surrogate: Phenol-d6	23.8		"	25.0		95.2	50-150			
Surrogate: 2,4,6-Tribromophenol	27.3	•	n	25.0		109	50-150			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 13 OF 14

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5G20015 - *** Organ	ic Prep ***	,								
QC SAMPLE: Calibration Blank (5G2	0015-CCB1)				Prepared:	07/18/05	Analyzed: (07/20/05		
CHLORDANE	ND	0.65	mg/L		-					
QC SAMPLE: Calibration Blank (5G20	0015-CCB2)				Prepared:	07/18/05	Analyzed: (07/20/05		
CHLORDANE	ND	0.65	mg/L							
BATCH: Batch 5G21009 - *** Organ	ic Prep ***									
QC SAMPLE: Calibration Blank (5G2	1009-CCB1)				Prepared:	07/18/05	Analyzed: (7/21/05		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49	"							
AROCHLOR 1232	ND	0.49	n							
AROCHLOR 1242	ND	0.49	n							
AROCHLOR 1248	ND	0.49	"							
AROCHLOR 1254	ND	0.49								
AROCHLOR 1260	ND	0.49	n							
QC SAMPLE: Calibration Blank (5G2	1009-CCB2)				Prepared:	07/18/05	Analyzed: (07/21/05		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49	н							
AROCHLOR 1232	ND	0.49	н							
AROCHLOR 1242	ND	0.49								
AROCHLOR 1248	ND	0.49	n							
AROCHLOR 1254	ND	0.49	"							
AROCHLOR 1260	ND	0.49								
QC SAMPLE: Reference (5G21009-SF	RM1)				Prepared:	07/18/05	Analyzed: (7/21/05		
AROCHLOR 1242	1.67	0.49	mg/L	2.00		83.5	50-150			



REPORT DATE:

07/22/05 15:46

REPORT NUMBER:5071301

PAGE: 14 OF 14

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bat	ch 5G21009 - *** Organic P	rep ***									
QC SAMPLE:	Reference (5G21009-SRM2)					Prepared:	07/18/05	Analyzed: (7/21/05		
AROCHLOR 124	-2	1.83	0.49	mg/L	2.00		91.5	50-150			
Data Qualifie	ers: Notes										_
A-01	Corrective action being take	en- questio	nable standard.								
A-01a	Corrective Action in progres	SS.									
A-01b	Estimated. ICV & CCV not a	available fo	or this compound.								_
A-01c	Re-analyzed on 7/22/2005							_			_

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME: Cascade General

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD: July, 2007

	ce Control Division Use Only Org 2159
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPI	LE TYPE			
7/25/07	CW	VT2B	GI	RAB			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664				N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	3.0 mg/L		2.0	110 mg/L	N/A	
Cyanide	SM 4500	0.0038 mg/	L	0.0030	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND		1.0	4.0 mg/L	N/A	
pH	EPA 150.1	8.59 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND		0.005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND		0.0134	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND		0.100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND		0.0134	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND		0.0134	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND		0.00447	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND		0.0050	0.2 mg/L	N/A	
Chloroform	EPA 624	ND		0.0050	0.2 mg/L	N/A	
n-Decane	EPA 625	ND		0.0134	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND		0.0134	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND		0.0134	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND		0.0134	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND		0.0348	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND		0.0050	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
7/25/2007	CV	VT2B	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTEI CONCENTRAT		DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.020	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	ND	0.010	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.044 mg/L	0.002	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	ND	0.003	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	ND	0.005	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.010	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	ND	0.005	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	ND	0.005	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND	0.00005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	ND	0.005	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	0.048 mg/L	0.020	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	ND	0.10	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND	0.010	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.040	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	0.069 mg/L	0.003	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:



6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner

BATCH DISCHARGE REQUEST FORM

	BATCH DISCHAI	RGE REQUEST FORM	
Waste Generator Information		Permit Contact	
,		Information	
Source Name	Cascade General	Name	Lian Jewell
		Address	Cascade General
Source Address	5555 N. Channel Ave.		5555 N. Channel Ave
	Portland, OR		
	97217		Portland, OR 97217
		Telephone Number	503/247-1806
		Facsimile Number	503/247-6050
Batch Information	CWTB	Email Address	ljewell@vigorindustrial.net
Batch Number:	CWIB	Proposed Discharge	500,000 gal
Batch Number.		Volume:*	300,000 gai
Request Date/Time:	8/02/2007 1100	Actual Discharge	
Request Date/Time.	8/02/2007 1100	Volume:	
Data Propagadi	8/6/2007	Sampling Location:	Tank-7, BWTP
Date Proposed: Duration of Discharge:	Start:	• •	
_		Stop:	•
` '	enerating Wastewater & W	astewater Characteristi	CS
CWT-B	·		
~			
0	stopped if heavy rain dev	-	~ <u>-</u>
Are the analysis sheets, (QA/QC and chain of custo	dy attached? Y	ES or NO (circle one)
G. 77 0 1			
City Use Only	· · ·		
Batch discharge approva		Date of Approval:	/ /2007
Approved By: Wesl	ey McDaniel		
Batch Discharge Denied	Due to the Following:		
	lty of law that this document a		
	rdance with a system designed		
	ation submitted. Based on my		
	ectly responsible for gathering nd belief, true, accurate, and c		
	information, including the poss		
ioi odomining idioo	morning mo pool		

Signature:



CLIENT: Cascade General

ATTN: Lian Jewell

P.O. Box 4367 Portland OR, 97208 PROJECT NAME: Wastewater Disch Permit Test -A Subcat

В

PROJECT NUMBER: BO-0057

PHONE: (503) 247-1806

FAX: (503) 247-1601

SUBMITTED: 07/25/07 11:52

REPORT DATE: 07/31/07 14:52

REPORT NUMBER: 7072512

PAGE: 1 OF 15

CISAMPLE	CLIENTS ID#		DATE	TIME	MATRIX					
7072512-01	T-7-07-25-07 Industri	ial Water	07/25	5/2007 1015	Water					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES		
7072512-01	SAMPLE ID: T-7-0	7-25-07 Industrial Water								
General Bench A	Analysis		•							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	0.0038	mg/L	0.0030	kc	07/30/2007 15:10			
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	3.0	mg/L	2.0	JRW	07/31/2007 11:03			
PH	EPA 150.1/9040	рН	8.59	SU	· - <u>-</u> -	kc	07/25/2007 14:15			
		TEMPERATURE (C)	20.5	SU						
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	kc	07/30/2007 11:07			
Total Mercury by	Cold Vapor Atomi	ic Fluorescence								
MERCURY CV AF	EPA 245.7/1631E	MERCURY	ND	mg/L	0.000050	KEL	07/26/2007 10:16			
Total Metals by I	Inductively Coupled	d Plasma								
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	KEL	07/27/2007 11:26			
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	KEL	07/27/2007 11:26			
BARIUM - ICP		BARIUM	0.044	mg/L	0.002	KEL	07/30/2007 15:48			
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	07/27/2007 07:59			
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	KEL	07/27/2007 07:59			
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	07/27/2007 11:26			
COPPER - ICP		COPPER	ND	mg/L	0.005	KEL	07/27/2007 07:59			
LEAD - ICP		LEAD	ND	mg/L	0.005	KEL	07/27/2007 07:59			
MOLYBDENUM -		MOLYBDENUM	ND	mg/L	0.005	KEL	07/27/2007 11:26			
NICKEL - ICP		NICKEL	0.048	mg/L	0.020	KEL	07/27/2007 07:59			
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	07/27/2007 11:26			
SILVER - ICP		SILVER	ND	mg/L	0.010	KEL	07/30/2007 15:48			
TIN - ICP		TIN	ND	mg/L	0.040	KEL	07/31/2007 10:06			
ZINC - ICP		ZINC	0.069	mg/L	0.003	KEL	07/27/2007 07:59			
Volatile Organics	s by Gas Chromato	ography/Mass Spectroscopy								
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.100	JRW	07/30/2007 13:12			
		CHLOROBENZENE CHLOROFORM	ND ND	mg/L mg/L	0.0050 0.0050					

This report may not be reproduced except in full.

Authorized for Release By:

y: Charles Morrow - Charles Morrow - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	: 07/31/07 14:	52 REPORT	PAGE: 2 OF 15					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
7072512-01	SAMPLE ID: T-7-0	7-25-07 Industrial Water						
Volatile Organics	s by Gas Chromato	ography/Mass Spectroscopy		•				
VOC 624 Extended	EPA 624	1,2-DICHLOROETHANE	ND	mg/L	0.0050	JRW	07/30/2007 13:12	
		TRICHLOROETHYLENE	ND	mg/L	0.0050			
		Surrogate: Dibromofluoromethane	68.6 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	99.7 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	105 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	84.0 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chr	omatography/Mass Spectroscopy						
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0348	DM	07/31/2007 10:28	
		Surrogate: Phenol-d6	130 %	%RECOVERY	50-150			
		Surrogate: 2,4,6-Tribromophenol	56.9 %	%RECOVERY	50-150			
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.0134	DM	07/28/2007 08:00	
		CARBAZOLE	ND	mg/L	0.0134			
		N-DECANE	ND	mg/L	0.0134			
		2,4-DINITROTOLUENE	ND	mg/L	0.0134			
		FLUORANTHENE	ND	mg/L	0.0134			
		NITROBENZENE	ND	mg/L	0.0134			
		N-OCTADECANE	ND	mg/L	0.0134			
		Surrogate: 2-Fluorobiphenyl	56.3 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	79.4 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	94.4 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chr	omatography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0034	DM	07/31/2007 12:24	
		AROCHLOR 1221	ND	mg/L	0.0034			
		AROCHLOR 1232	ND	mg/L	0.0034			
		AROCHLOR 1242	ND	mg/L	0.0034			
		AROCHLOR 1248	ND	mg/L	0.0034			
		AROCHLOR 1254	ND	mg/L	0.0034			
		AROCHLOR 1260	ND	mg/L	0.0034			
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00447	DM	07/31/2007 12:14	
		ALPHA-CHLORDANE	ND	mg/L	0.00447			
		GAMMA-CHLORDANE	ND	mg/L	0.00447			

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 3 OF 15

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G25002 - General Prep	aration				-		_			
QC SAMPLE: Duplicate (7G25002-DUP1)			Source: 7072	2507-01	Prepared 8	& Analyzed	l: 07/25/07			
pH	7.74		SU		7.73			0.129	10	
TEMPERATURE (C)	20.4		"		20.5			0.489	200	
QC SAMPLE: Reference (7G25002-SRM1)					Prepared 8	& Analyzed	i: 07/25/07			
рН	5.00		SU	5.00		100	97.5-102			
QC SAMPLE: Reference (7G25002-SRM2)					Prepared 8	& Analyzed	1: 07/25/07			
рН	8.04		SU	8.00		100	97.5-102			
QC SAMPLE: Reference (7G25002-SRM3))				Prepared 8	& Analyzed	l: 07/25/07			
pH	5.04		SU	5.00		101	97.5-102			
QC SAMPLE: Reference (7G25002-SRM4))				Prepared 8	& Analyzed	l: 07/25/07			
рН	8.03		SU	8.00		100	97.5-102			
BATCH: Batch 7G27010 - Water Extrac	tion						_			
QC SAMPLE: Blank (7G27010-BLK1)					Prepared 8	& Analyzed	l: 07/27/07			
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
QC SAMPLE: Blank (7G27010-BLK2)					Prepared:	07/27/07	Analyzed: 07	7/31/07		
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
QC SAMPLE: LCS (7G27010-BS1)					Prepared 8	& Analyzed	1: 07/27/07			
NONPOLAR OIL & GREASE	14.4	2.0	mg/L	22.1		65.2	66-114			SRM-2
QC SAMPLE: LCS Dup (7G27010-BSD1)					Prepared 8	& Analyzed	f: 07/27/07			
NONPOLAR OIL & GREASE	17.1	2.0	mg/L	22.1		77.4	66-114	17.1	24	

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 4 OF 15

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G30012 - General Prep	aration									
QC SAMPLE: Blank (7G30012-BLK1)					Prepared	& Analyzed	: 07/30/07			
CYANIDE, TOTAL	ND	0.0030	mg/L							
QC SAMPLE: Reference (7G30012-SRM1)					Prepared	& Analyzed	: 07/30/07			
CYANIDE, TOTAL	0.0755	0.0030	mg/L	0.0800		94.4	90-110			



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 5 OF 15

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7G26003 - ***Metals Pre	p***									
QC SAMPLE:	Blank (7G26003-BLK1)					Prepared	& Analyzed	: 07/26/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7G26003	-CCB1)				Prepared	& Analyzed	: 07/26/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (7G26003	-CCB2)				Prepared	& Analyzed	: 07/26/07			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (7G26003-SRM1)					Prepared	& Analyzed	: 07/26/07			
MERCURY		0.00021	0.000050	mg/L	0.00020		105	90-110			
QC SAMPLE:	Reference (7G26003-SRM2)					Prepared	& Analyzed	: 07/26/07			
MERCURY		0.00020	0.000050	mg/L	0.00020		100	90-110			

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 6 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7G27001 - ***Metals P	rep***									
QC SAMPLE:	Blank (7G27001-BLK1)					Prepared of	& Analyzed	: 07/27/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004	"							
COPPER		ND	0.004	11							
LEAD		ND	0.004	**							
NICKEL		ND	0.018	**							
ZINC		ND	0.003	"							
QC SAMPLE:	Calibration Blank (7G2700	01-CCB1)				Prepared of	& Analyzed	: 07/27/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004	"							
COPPER		ND	0.004	"							
LEAD		ND	0.004	**							
NICKEL		ND	0.018	**							
ZINC		ND	0.003	"							
QC SAMPLE:	Calibration Blank (7G2700	01-CCB2)				Prepared of	& Analyzed	: 07/27/07			
CADMIUM		ND	0.003	mg/L		· · · · · · · · · · · · · · · · · · ·					
CHROMIUM		ND	0.004	٠,							
COPPER		ND	0.004	.,							
LEAD		ND	0.004	**							
NICKEL		ND	0.018								
ZINC		ND	0.003	"							
QC SAMPLE:	Reference (7G27001-SRM	1)				Prepared a	& Analyzed	: 07/27/07			
CADMIUM		1.06	0.003	mg/L	1.00		106	85-115			
CHROMIUM		1.02	0.004	"	1.00		102	85-115			
COPPER		1.02	0.004	п	1.00		102	85-115			
LEAD		1.03	0.004	**	1.00		103	85-115			
NICKEL		1.08	0.018	н	1.00		108	85-115			
ZINC		1,11	0.003	**	1.00		111	85-115			

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 7 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte I	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	:h 7G27001 - ***Metals Prep*	**		-					***		
QC SAMPLE:	Reference (7G27001-SRM2)					Prepared 8	& Analyzed	: 07/27/07			
CADMIUM		1.02	0.003	mg/L	1.00		102	85-115			
CHROMIUM		1.05	0.004		1.00		105	85-115			
COPPER		1.03	0.004		1.00		103	85-115			
LEAD		1.02	0.004		1.00		102	85-115			
NICKEL		1.08	0.018	**	1.00		108	85-115			
ZINC		1.04	0.003	**	1.00		104	8 5- 115			
BATCH: Batc	h 7G27007 - ***Metals Prep*	**									
QC SAMPLE:	Blank (7G27007-BLK1)					Prepared 8	& Analyzed	: 07/27/07			
ANTIMONY	all the second of the second o	ND	0.018	mg/L							
ARSENIC		ND	0.009	,,							
COBALT		ND	0.0090								
MOLYBDENUM		ND	0.004								
SELENIUM		ND	0.090								
QC SAMPLE:	Calibration Blank (7G27007-C	CB1)				Prepared 8	& Analyzed	: 07/27/07			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009								
COBALT		ND	0.0090								
MOLYBDENUM		ND	0.004	H							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (7G27007-C	CB2)				Prepared 8	& Analyzed	: 07/27/07			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009								
COBALT		ND	0.0090	**							
MOLYBDENUM		ND	0.004	11							
SELENIUM		ND	0.090	"							

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 8 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte F	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7G27007 - ***Metals Prep*	**									
QC SAMPLE:	Reference (7G27007-SRM1)					Prepared 8	& Analyzed	: 07/27/07			
ANTIMONY		0.940	0.018	mg/L	1.00		94.0	85-115			
ARSENIC		1.06	0.009		1.00		106	85-115			
COBALT		1.03	0.0090	"	1.00		103	85-115			
MOLYBDENUM		1.05	0.004	"	1.00		105	85-115			
SELENIUM		1.13	0.090	"	1.00		113	85-115			
QC SAMPLE:	Reference (7G27007-SRM2)					Prepared 8	& Analyzed	: 07/27/07			
ANTIMONY		1.02	0.018	mg/L	1.00		102	85-115			
ARSENIC		1.00	0.009	**	1.00		100	85-115			
COBALT		1.00	0.0090	**	1.00		100	85-115			
MOLYBDENUM		0.933	0.004	"	1.00		93.3	85-115			
SELENIUM		1.05	0.090	,,	1.00		105	85-115			
BATCH: Batc	h 7G30013 - ***Metals Prep*	**									
QC SAMPLE:	Blank (7G30013-BLK1)					Prepared 8	& Analyzed	: 07/30/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							
QC SAMPLE:	Calibration Blank (7G30013-C	CB1)				Prepared 8	& Analyzed	: 07/30/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							
QC SAMPLE:	Calibration Blank (7G30013-C	CB2)				Prepared 8	& Analyzed	: 07/30/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 9 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits 	RPD	RPD Limit	Notes
BATCH: Batc	h 7G30013 - ***Metals Prep)***						_			
QC SAMPLE:	Reference (7G30013-SRM1)					Prepared	& Analyzed	: 07/30/07			
BARIUM		1.01	0.002	mg/L	1.00		101	85-115			
SILVER		0.549	0.009	11	0.500		110	85-115			
QC SAMPLE:	Reference (7G30013-SRM2)					Prepared of	& Analyzed	: 07/30/07			
BARIUM		1.02	0.002	mg/L	1.00		102	85-115			
SILVER		0.542	0.009	D	0.500		108	85-115			
BATCH: Bato	h 7G31008 - ***Metals Prep)***									
QC SAMPLE:	Blank (7G31008-BLK1)					Prepared 8	& Analyzed	: 07/31/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7G31008-	CCB1)				Prepared &	& Analyzed	: 07/31/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7G31008-	CCB2)				Prepared 8	& Analyzed	: 07/31/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (7G31008-SRM1)					Prepared 6	& Analyzed	: 07/31/07			
TIN		1.02	0.036	mg/L	1.00		102	90-110			
QC SAMPLE:	Reference (7G31008-SRM2)					Prepared of	& Analyzed	: 07/31/07			
TIN		0.952	0.036	mg/L	1.00		95.2	90-110			

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 10 OF 15

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G30004 - Volatiles		·								
QC SAMPLE: Calibration Blank (7G300	04-CCB1)				Prepared 8	& Analyzed	: 07/30/07			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	D							
CHLOROFORM	ND	0.0005	**							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Dibromofluoromethane	0.006230		"	0.00809		77.0	50-150			
Surrogate: Fluorobenzene	0.007490		"	0.00809		92.5	50-150			
Surrogate: Chlorobenzene-d5	0.007820		"	0.00809		96.6	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006870		"	ō.00809		84.9	50-150			
QC SAMPLE: Calibration Blank (7G300	004-CCB2)				Prepared &	& Analyzed	: 07/30/07			
ACRYLONITRILE	ND	0.0100	mg/L		•					
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	0							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.005570		"	0.00809		68.8	50-150			
Surrogate: Fluorobenzene	0.008120		"	0.00809		100	50-150			
Surrogate: Chlorobenzene-d5	0.009000		"	0.00809		111	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007790		"	0.00809		96.2	50-150			
QC SAMPLE: Matrix Spike (7G30004-M	IS1)	S	ource: 707	2512-01	Prepared 8	<u>Analyzed</u>	: 07/30/07			
CHLOROBENZENE	0.1095	0.0050	mg/L	0.1000	ND	110	80-120			
CHLOROFORM	0.09100	0.0050		0.1000	ND	91.0	80-120			
1,2-DICHLOROETHANE	0.09160	0.0050	"	0.1000	ND	91.6	80-120			
TRICHLOROETHYLENE	0.1129	0.0050	"	0.1000	ND	113	80-120			
Surrogate: Dibromofluoromethane	0.007090		"	0.00809		87.6	50-150			
Surrogate: Fluorobenzene	0.006870		11	0.00809		84.9	50-150			
Surrogate: Chlorobenzene-d5	0.01043		п	0.00809		129	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008640		"	ō.00809		107	50-150			

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 11 OF 15

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G30004 - Volatil	es									
QC SAMPLE: Matrix Spike Dup (70	G30004-MSD1)		Source: 707	2512-01	Prepared a	& Analyzed	: 07/30/07			
1,2-DICHLOROETHANE	0.1312	0.0050	mg/L	0.1000	ND	131	80-120	35.5	20	SRM-1
Surrogate: Dibromofluoromethane	0.004360		"	0.00809		53.9	50-150			
Surrogate: Fluorobenzene	0.006630		"	ō.00809		81.9	50-150			
Surrogate: Chlorobenzene-d5	0.006920		"	ō.00809		85.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008220		"	0.00809		102	50-150			
QC SAMPLE: Reference (7G30004	-SRM1)				Prepared 8	& Analyzed	: 07/30/07			
CHLOROBENZENE	0.01019	0.0005	mg/L	0.01000		102	0-200			
CHLOROFORM	0.008660	0.0005	"	0.01000		86.6	0-200			
1,2-DICHLOROETHANE	0.01102	0.0005	**	0.01000		110	0-200			
TRICHLOROETHYLENE	0.01080	0.0005	"	0.01000		108	0-200			_
Surrogate: Dibromofluoromethane	0.005980		"	0.00809		73.9	50-150			
Surrogate: Fluorobenzene	0.007900		n	0.00809		97.6	50-150			
Surrogate: Chlorobenzene-d5	0.007770		n	0.00809		96.0	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008050		"	0.00809		99. <i>4</i>	50-150			
QC SAMPLE: Reference (7G30004	-SRM2)				Prepared a	& Analyzed	1: 07/30/07			
CHLOROBENZENE	0.009970	0.0005	mg/L	0.01000		99.7	0-200			
CHLOROFORM	0.008340	0.0005	**	0.01000		83.4	0-200			
1,2-DICHLOROETHANE	0.009650	0.0005	"	0.01000		96.5	0-200			
TRICHLOROETHYLENE	0.009790	0.0005	"	0.01000		97.9	0-200			
Surrogate: Dibromofluoromethane	0.006200		"	0.00809		76.6	50-150			
Surrogate: Fluorobenzene	0.006690		,,	ō.00809		82.6	50-150			
Surrogate: Chlorobenzene-d5	0.007810		"	ō.00809		96.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009350		u	0.00809		116	50-150			

This report may not be reproduced except in full.



REPORT DATE: 07/31/07 14:52 REPORT NUMBER:7072512 PAGE: 12 OF 15

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G31005 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (7G3	31005-CCB1)				Prepared	& Analyzed	: 07/31/07			
PENTACHLOROPHENOL	ND	0.980	mg/L							
Surrogate: Phenol-d6	38.6	*	"	40.0		96.5	50-150			
Surrogate: 2,4,6-Tribromophenol	33.5		"	40.0		83.8	50-150			
QC SAMPLE: Calibration Blank (7G3	31005-CCB2)				Prepared	& Analyzed	: 07/31/07			
PENTACHLOROPHENOL	ND	0.980	mg/L							
Surrogate: Phenol-d6	38.9		n	40.0		97.2	50-150			
Surrogate: 2,4,6-Tribromophenol	33.4		n	40.0		83.5	50-150			
QC SAMPLE: Reference (7G31005-S	RM1)				Prepared	& Analyzed	: 07/31/07			
PENTACHLOROPHENOL	10.0	0.980	mg/L	10.0		100	80-120			
Surrogate: Phenol-d6	9.51			10.0		95.1	50-150			
Surrogate: 2,4,6-Tribromophenol	9.63		"	10.0		96.3	50-150			
QC SAMPLE: Reference (7G31005-S	RM2)				Prepared	& Analyzed	: 07/31/07			
PENTACHLOROPHENOL	11.4	0.980	mg/L	10.0		114	80-120			
Surrogate: Phenol-d6	8.00		"	10.0		80.0	50-150			
Surrogate: 2,4,6-Tribromophenol	9.54			10.0		95.4	50-150			
BATCH: Batch 7G31009 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (7G3	•				Prepared:	07/27/07	Analyzed: 0	7/28/07		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE	ND	0.980	"							
2,4-DINITROTOLUENE	. ND	0.980								
FLUORANTHENE	ND	0.980	"							
NITROBENZENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	24.2		"	20.0		121	50-150			
Surrogate: Nitrobenzene-D5	15.6		п	20.0		78.0	50-150			
Surrogate: p-terphenyl-D14	22.6		"	20.0		113	50-150			

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 13 OF 15

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source. Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G31009 - *** Org	anic Prep ***									
QC SAMPLE: Calibration Blank (70	G31009-CCB2)				Prepared:	07/27/07	Analyzed: 0	7/28/07		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE	ŅD	0.980	**							
2,4-DINITROTOLUENE	ND	0.980	"							
FLUORANTHENE	ND	0.980	"							
NITROBENZENE	ND	0.980	"							
N-OCTADECANE	ND	0.980	"			_			-1-1	
Surrogate: 2-Fluorobiphenyl	21.6		"	20.0		108	50-150			
Surrogate: Nitrobenzene-D5	17.2		"	20.0		86.0	50-150			
Surrogate: p-terphenyl-D14	20.9		"	20.0		104	50-150			
QC SAMPLE: Reference (7G31009-	SRM1)			_	Prepared:	07/27/07	Analyzed: 0	7/28/07		
BIS(2-ETHYLHEXYL)PHTHALATE	11.6	0.980	mg/L	10.0		116	80-120			
CARBAZOLE	20.9	0.980		20.0		104	50-150			
N-DECANE	11.0	0.980	n	10.0		110	50-150			
2,4-DINITROTOLUENE	10.1	0.980	н	10.0		101	80-120			
FLUORANTHENE	10.2	0.980		10.0		102	80-120			
NITROBENZENE	9.01	0.980	**	10.0		90.1	80-120			
N-OCTADECANE	10.8	0.980	"	9.94		109	50-150			
Surrogate: 2-Fluorobiphenyl	10.3		"	10.0		103	50-150			
Surrogate: Nitrobenzene-D5	9.89		"	10.0		98.9	50-150			
Surrogate: p-terphenyl-D14	10.4		n	10.0		104	50-150			
QC SAMPLE: Reference (7G31009-	-SRM2)				Prepared	& Analyzed	: 07/27/07			
BIS(2-ETHYLHEXYL)PHTHALATE	10.5	0.980	mg/L	10.0		105	80-120			
CARBAZOLE	20.4	0.980	"	20.0		102	50-150			
N-DECANE	10.3	0.980	"	10.0		103	50-150			
2,4-DINITROTOLUENE	10.3	0.980		10.0		103	80-120			
FLUORANTHENE	10.3	0.980	**	10.0		103	80-120			
NITROBENZENE	8.88	0.980		10.0		88.8	80-120			
N-OCTADECANE	10.3	0.980	D	9.94		104	50-150			
Surrogate: 2-Fluorobiphenyl	10.5		,,	10.0		105	50-150			
Surrogate: Nitrobenzene-D5	10.4		"	10.0		104	50-150			
Surrogate: p-terphenyl-D14	10.3		u	10.0		103	50-150			

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 14 OF 15

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G31015 - *** Organic	Prep ***			_						
QC SAMPLE: Calibration Blank (7G310	15-CCB1)_				Prepared:	07/27/07	Analyzed: 0	7/31/07		
CHLORDANE	ND	0.653	mg/L							
ALPHA-CHLORDANE	ND	0.653	"							
GAMMA-CHLORDANE	ND	0.653	"							
QC SAMPLE: Calibration Blank (7G310	15-CCB2)				Prepared:	07/27/07	Analyzed: 0	7/31/07		
CHLORDANE	ND	0.653	mg/L							
ALPHA-CHLORDANE	ND	0.653	"							
GAMMA-CHLORDANE	ND	0.653	"							
QC SAMPLE: Reference (7G31015-SRM	/l1)				Prepared:	07/27/07	Analyzed: (7/31/07		
ALPHA-CHLORDANE	4.97	0.653	mg/L	5.00		99.4	50-150			
GAMMA-CHLORDANE	4.95	0.653	n	5.00		99.0	50-150			
QC SAMPLE: Reference (7G31015-SRM	/12)				Prepared:	07/27/07	Analyzed: (7/31/07		
ALPHA-CHLORDANE	5.71	0.653	mg/L	5.00		114	50-150			·
BATCH: Batch 7G31016 - *** Organio	Prep ***									
QC SAMPLE: Calibration Blank (7G310)16-CCB1)				Prepared:	07/27/07	Analyzed: (7/31/07		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49	"		,					
AROCHLOR 1232	ND	0.49	"							
AROCHLOR 1242	ND	0.49	"							
AROCHLOR 1248	ND	0.49	"							
AROCHLOR 1254	ND	0.49	"							
AROCHLOR 1260	ND	0.49	"							

This report may not be reproduced except in full.



REPORT DATE:

07/31/07 14:52

REPORT NUMBER:7072512

PAGE: 15 OF 15

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7G31016 - *** C	rganic Prep ***									
QC SAMPLE: Calibration Blank	(7G31016-CCB2)				Prepared:	07/27/07	Analyzed: 0	7/31/07		
AROCHLOR 1016	ND	0.49	mg/L			_				
AROCHLOR 1221	ND	0.49	**							
AROCHLOR 1232	ND	0.49	"							
AROCHLOR 1242	ND	0.49	,							
AROCHLOR 1248	ND	0.49								
AROCHLOR 1254	ND	0.49	**							
AROCHLOR 1260	ND	0.49								
QC SAMPLE: Reference (7G310	16-SRM1)				Prepared:	07/27/07	Analyzed: 0	7/31/07		
AROCHLOR 1248	2.60	0.49	mg/L	2.00		130	50-150		-	
QC SAMPLE: Reference (7G310	16-SRM2)				Prepared:	07/27/07	Analyzed: 0	7/31/07		
AROCHLOR 1248	2.28	0.49	mg/L	2.00		114	50-150			
	•									
D 1 0 17										

Data Qualifiers:

Qualifier	Notes
SRM-1	The recovery of this SRM was high. The batch was accepted on the basis of other reference materials in this batch.
SRM-2	The recovery of this SRM was low. The batch was accepted on the basis of other reference materials in this batch.

This report may not be reproduced except in full.



6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner

BATCH DISCHARGE REQUEST FORM

	DATCHD	INDUITION NEQUEST TOKIN	
Waste Generator Information	1	Permit Contact Information	
Source Name		Name	Lian Jewell
Cascade General		Company Name	Cascade General
Source Address		Address	5555 N. Channel Ave
5555 N. Channel			Portland, OR 97217
Portland, Or 97217		Telephone Number	503/247-1806
		Facsimile Number	503/247-6050
Batch Information	Marine	Email Address	ljewell@vigorindustrial.net
Batch Number:		Proposed Discharge Volume:*	800,000
Request Date/Time:	7/23/07 1600	Actual Discharge Volume:	
Date Proposed:	7/24/07	Sampling Location: 3P tank	
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
S	enerating Wastews	ater & Wastewater Characteristic	*
Wash water from rinsing	g clean cargo tanks	S	
Are the analysis sheets,		rain develops. Flow will be held of custody attached?	d below 180 gpm. YES or NO (circle one)
City Use Only			
Batch discharge approva		Date of Approval:	/ /2007
Approved By: Wes	McDaniel		
Batch Discharge Denie	d Due to the Follo	wing:	
supervision in according evaluate the inform or those persons did of my knowledge a	ordance with a system nation submitted. Base rectly responsible for and belief, true, accur	ocument and all attachments were pre in designed to ensure that qualified pe ed on my inquiry of the person or person gathering the information, the informa- tate, and complete. I am aware that the ing the possibility of fine and imprisonn	rsonnel properly gather and ons who manage the system, tion submitted is, to the best ere are significant penalties

Signature: Date:

CITY OF PORTLAND INDUSTRIAL BATCH DISCHARGE REQUEST AND REPORT

INDUSTRY NAME:	Cascade General	For Industrial Source Control Division Use Only (Org Id 2159)
PERMIT NUMBER:	437.003	Date Postmarked/Received Date Entered
ISCD APPROVAL BY:		
APPROVAL DATE:		
REPORT DUE DATE:	Prior To Discharge	Entered By:
BATCH DESCRIPTIOPN:	Non CWT - Marine Generated – Tank Rinse Water	Comments:
DISCHARGE VOLUME:	800,000 gal	
DISCHARGE Start: 7/2	4/2007 Stop:7/27/2007	

DATES

SAMPLE DATE		POINT OF DISCHARGE					
7/20/2007		3 Port Tank					
PARAMETER	ANALYTICAL METHOD	REPORTED CONCENTRATION	MDL	LIMITS	COMMENTS		
Copper (Total)	EPA 200.8	ND	0.005	3.7 mg/L			
Lead (Total)	EPA 200.8	ND	0.005	0.7 mg/L			
Zinc (Total)	EPA 200.8	ND	0.003	3.7 mg/L			
HEM Oil and Grease (Non-Polar)	EPA 1664	ND	2.0	110 mg/L			
pH	EPA 150.1	7.52		5.0 - 11.5			
TSS							

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:		Date:	L part



6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Name Charles Isted Source Name Cascade General Cascade General Company Name Source Address 5555 N. Channel Ave. Address 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 Facsimile Number 503/247-6050 Email Address Batch Information CWTAliewell@vigorindustrial.net Batch Number: Proposed Discharge 60,000 gal Volume:* Request Date/Time: Actual Discharge Volume: Date Proposed: Sampling Location: T-, BWTP Duration of Discharge: Start: Stop: Sampled? YES NO Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-A Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, OA/OC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: YES or NO Date of Approval: /2008 Approved By: Biola Cruse Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: ____ Date:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

		For Industrial Source	ce Control Division Use Onl
INDUSTRY NAME:	Vigor Industrial	Date Postmarked/Received	Date Entered
PERMIT NUMBER:	437.003		
REPORT DUE DATE:	Prior to Batch Approval		Entered By:
SAMPLING PERIOD:		Comments:	

Dry Dock Treatment Plant (CWT - A)

SAMPLE DATE	POINT OF C	COMPLIANCE	SAN	MPLE TYPE			
	CV	VT2A	CC	OMPOSITE			
PARAMETER	ANALYSIS METHOD		REPORTED CONCENTRATION		LIN DAILY	CON	
Antimony		m	g/L		0.249 mg/L	0.206 mg/L	
Arsenic (Total)		mg/L			0.162 mg/L	0.104 mg/L	
Cadmium (Total)		m	g/L		0.474 mg/L	0.0962 mg/L	
Chromium (Total)		m	g/L		5.0 mg/L	3.07 mg/L	
Cobalt (Total)		m	g/L		0.192 mg/L	0.124 mg/L	
Copper (Total)		mg/L			3.7 mg/L	1.06 mg/L	
Lead (Total)		m	g/L		0.7 mg/L	0.283 mg/L	
Mercury (Total)		m	g/L		0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)		m	g/L		1.4 mg/L	2.09 mg/L	
Nickel (Total)		m	g/L		2.8 mg/L	1.45 mg/L	
Selenium (Total)		m	g/L		0.6 mg/L	0.408 mg/L	
Silver (Total)		m	g/L		0.120 mg/L	0.0351 mg/L	
Tin (Total)		m	g/L		0.409 mg/L	0.120 mg/L	
Titanium (Total)		mg/L			0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)		mg/L			0.218 mg/L	0.0662 mg/L	
Zinc (Total)		m	mg/L		2.87 mg/L	0.641 mg/L	

SAMPLE DATE	POINT OF C	COMPLIANCE	SA	MPLE TYPE			
	CV	VT2A		GRAB			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		MDL	LI DAILY	MITS MONTHLY	COM
HEM Oil & Grease (Total) 1		m	g/L		N/A	N/A	
HEM Oil and Grease (Non-Polar)		m	g/L		110 mg/L	N/A	Local Limit
Cyanide (Total)		m	g/L		1.2 mg/L	178 mg/L	
pH		SU	U		5.0 - 11.5	N/A	Local Limit

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	
0		



6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Cascade General Charles Isted Source Name Name Address Cascade General 5555 N. Channel Ave Source Address 5555 N. Channel Ave. Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1959 Facsimile Number 503/247-1391 Batch Information CWTB**Email Address** cisted@casgen.com Batch Number: Proposed Discharge 550,000 gal Volume:* Actual Discharge Request Date/Time: 6/16/2008 1100 Volume: Sampling Location: Tank-7, BWTP Date Proposed: 6/16/08 Duration of Discharge: Start: 6/17/08 1200 Stop: 6/18/08 Sampled? YES NO Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.





6543 North Burlington Aven	v	:03-5452 Dean Marriott, Dire	ector Dan Saltzman, Commissioner M
Waste Generator Information	Bill on biser	Permit Contact Information	
Source Name	Cascade General	Name	Alan Sprott
		Company Name	Cascade General
Source Address	5555 N. Channel Ave. Portland, OR	Address	5555 N. Channel Ave
	97217		Portland, OR 97217
		Telephone Number Facsimile Number	503/247-1672 503/247-6050
Batch Information Batch Number:	CWTA	Email Address Proposed Discharge Volume:*	asprott@casgen.com 50,000 gal
Request Date/Time:	08/05 0800	Actual Discharge Volume:	
Date Proposed:	8/08/05	Sampling Location:	
	Start: nerating Wastewater &	Stop: & Wastewater Characterist	Sampled? YES NO
CWT-A	,		
Discharge flow will be so Are the analysis sheets, Q	•	develops. Flow will be heatstody attached?	eld below gpm. (ES or NO (circle one)
City Use Only Batch discharge approval Approved By: Chris	: YES or NO Collett	Date of Approval:	/ /2005
Batch Discharge Denied			
S	5		
supervision in accor evaluate the informa	dance with a system designing submitted. Based on a	ent and all attachments were pr gned to ensure that qualified p my inquiry of the person or per ing the information, the inform	ersonnel properly gather and sons who manage the system,

Signature: Date:



6543 North Burlington Avenu	· ·	3-5452 Dean Marriott, Directo ARGE REQUEST FORM	r Dan Saltzman, Commissioner
Waste Generator Information	Billelibischi	Permit Contact Information	
Source Name	Cascade General	Name	Alan Sprott
		Company Name	Cascade General
Source Address	5555 N. Channel Ave. Portland, OR	Address	5555 N. Channel Ave
	97217		Portland, OR 97217
		Telephone Number	503/247-1672
		Facsimile Number	503/247-6050
Batch Information	CWTA	Email Address	asprott@casgen.com
Batch Number:		Proposed Discharge Volume:*	50,000 gal
Request Date/Time:	08/05 0800	Actual Discharge	
•		Volume:	
Date Proposed:	8/08/05	Sampling Location:	
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
Detail the Process(es) Gen CWT-A	erating Wastewater &	Wastewater Characteristics	
Dischause George: Dischause			h-l
Are the analysis sheets, QA		tody attached? YES	below gpm. or NO (circle one)
City Use Only			
Batch discharge approval: Approved By: Chris C	YES or NO Collett	Date of Approval:	/ /2005
Batch Discharge Denied I	Due to the Following:		
I a	C. La	4 a	
supervision in accord	ance with a system design	t and all attachments were prepared to ensure that qualified personal control of the control of	onnel properly gather and
		y inquiry of the person or person g the information, the information	
of my knowledge and	I belief, true, accurate, and	complete. I am aware that there assibility of fine and imprisonment	e are significant penalties
Signature:	, 5 I	Date:	

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

SELF-MUNITURING REPURI
For Industrial Source Control Division Use Only

INDUSTRY NAME: <u>Cascade General</u>

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD: August 2005

	Org 2159	
Date Postmarked/Received	Date Entered	
	Entered By:	
Comments:		

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
8/01/05	CV	VT2B	GRAB			
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATIO	MDL ON	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	220.0 mg/L	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	107.0 mg/L	2.0	110 mg/L	N/A	
PH	EPA 150.1	10.0 SU		5.0 - 11.5	N/A	
Cyanide (Total)	SM 4500	0.015 mg/L	0.0030	1.2 mg/L	N/A	
Sulfide (Dissolved)	EPA 376.1	ND mg/L	1.0	4.0 mg/L	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L	0.0005	0.50 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L	0.012	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND mg/L	0.010	1.0 mg/L	N/A	
Chlordane	EPA 625	ND mg/L	0.004	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	
Chloroform	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	
Nitrobenzene	EPA 625	ND mg/L	0.006	2.0 mg/L	N/A	
Pentachlorophenol	EPA 625	ND mg/L	0.03	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND mg/L	0.0005	0.20 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF COMPLIANCE		SAMPLE TYPE				
8/01/05	CV	VT2B	COMPOSITE				
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRAT		DAILY	LIMITS DAILY MONTHLY		
Antimony (Total)	EPA 200.7	ND mg/L	0.020	0.249 mg/L	0.206 mg/L		
Arsenic (Total)	EPA 200.7	ND mg/L	0.010	0.162 mg/L	0.104 mg/L		
Cadmium (Total)	EPA 200.7	ND mg/L	0.003	0.474 mg/L	0.0962 mg/L		
Chromium (Total)	EPA 200.7	ND mg/L	0.005	5.0 mg/L	3.07 mg/L		
Cobalt (Total)	EPA 200.7	ND mg/L	0.01	0.192 mg/L	0.124 mg/L		
Copper (Total)	EPA 200.7	ND mg/L	0.005	3.7 mg/L	1.06 mg/L		
Lead (Total)	EPA 200.7	ND mg/L	0.005	0.7 mg/L	0.283 mg/L		
Mercury (Total)	EPA 245.7	ND mg/L	0.00005	0.00234 mg/L	0.000739 mg/L		
Molybdenum (Total)	EPA 200.7	ND mg/L	0.03	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	ND mg/L	0.020	2.8 mg/L	1.45 mg/L		
Selenium (Total)	EPA 200.7	ND mg/L	0.10	0.6 mg/L	0.408 mg/L		
Silver (Total)	EPA 200.7	ND mg/L	0.010	0.120 mg/L	0.0351 mg/L		
Tin (Total)	EPA 200.7	0.05 mg/L	0.04	0.409 mg/L	0.120 mg/L		
Titanium (Total)	EPA 200.7	ND mg/L	0.05	0.0947 mg/L	0.0618 mg/L		
Vanadium (Total)	EPA 200.7	ND mg/L	0.010	0.218 mg/L	0.0662 mg/L		
Zinc (Total)	EPA 200.7	0.022 mg/L	0.003	2.87 mg/L	0.641 mg/L		

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	The same



CLIENT: Cascade General

ATTN: Alan Sprott

P.O. Box 4367 Portland OR, 97208 Subcat. A

PROJECT NUMBER: 85806

PHONE: (503) 703-0875

FAX: (503) 247-6050

SUBMITTED: 08/01/05 13:46

PROJECT NAME: Wastewater Disch Permit Test - A

REPORT DATE: 08/05/05 11:57

REPORT NUMBER: 5080107

PAGE: 1 OF 13

CISAMPLE	CLIENTS ID#		DA	TE TIME	MATRIX			
5080107-01	CWI Subcategory A n	netals	08/	/01/2005 1230	Water	_		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
5080107-01	SAMPLE ID: CWI S	Subcategory A metals						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B-C	CYANIDE	0.015	mg/L	0.0030	MRP	08/03/2005 15:53	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	107	mg/L	2	MRP	08/03/2005 15:48	A-01a
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	220.0	mg/L	2.0	MRP	08/03/2005 15:42	
PH	EPA 150.1/9040	рН	10.0	SU		MRP	08/02/2005 08:11	
		TEMPERATURE (C)	20.4	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	MRP	08/04/2005 10:34	
SUSPENDED SOLIDS	EPA 160.2	TOTAL SUSPENDED SOLIDS	72	mg/L	1.0	MRP	08/04/2005 12:56	
Total Mercury b	y Cold Vapor Atomi	c Absorption						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	BKB	08/03/2005 14:08	
Total Metals by	Inductively Coupled	l Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	BKB	08/02/2005 14:51	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	вкв	08/02/2005 14:51	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	вкв	08/02/2005 14:51	
CHROMIUM - ICP		СНКОМІИМ	ND	mg/L	0.005	вкв	08/02/2005 14:51	
COBALT - ICP		COBALT	ND	mg/L	0.010	вкв	08/02/2005 14:51	
COPPER - ICP		COPPER	ND	mg/L	0.005	вкв	08/02/2005 14:51	
LEAD - ICP		LEAD	ND	mg/L	0.005	вкв	08/02/2005 14:51	
MOLYBDENUM -		MOLYBDENUM	ND	mg/L	0.030	вкв	08/02/2005 14:51	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	вкв	08/02/2005 14:51	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	вкв	08/02/2005 14:51	
SILVER - ICP		SILVER	ND	mg/L	0.010	вкв	08/02/2005 14:51	
TIN - ICP		TIN	0.050	mg/L	0.040	вкв	08/02/2005 14:51	
TITANIUM - ICP		TITANIUM	NĐ	mg/L	0.050	ВКВ	08/02/2005 14:51	
VANADIUM - ICP		VANADIUM	ND	mg/L	0.010	ВКВ	08/02/2005 14:51	
ZINC - ICP		ZINC	0.022	mg/L	0.003	вкв	08/02/2005 14:51	

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInspection.com



REPORT DATE:	08/05/05 11:57	REPORT N	PAGE: 2 OF 13					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
5080107-01	SAMPLE ID: CWI Su	bcategory A metals						
Total Metals by I	nductively Coupled F	Plasma						
Volatile Organics	by Gas Chromatogr	aphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	PA	08/03/2005 14:42	
		CHLOROBENZENE	ND	mg/L	0.0005			
		CHLOROFORM	ND	mg/L	0.0005			
		1,2-DICHLOROBENZENE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Fluorobenzene	77.8 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	96.1 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	84.5 %	%RECOVERY	50-150			
Semi-Volatile Org	ganics by Gas Chron	natography/Mass Spectroscopy						
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.030	DM	08/02/2005 23:33	
		Surrogate: Phenol-d6	86.6 %	%RECOVERY	50-150			
		Surrogate: 2,4,6-Tribromophenol	202 %	%RECOVERY	50-150			\$-05
B/N SEMIVOL 625		a-TERPINEOL	ND	mg/L	0.0060	DM	08/03/2005 10:35	
		2,4-DINITROTOLUENE	ND	mg/L	0.012			
		NITROBENZENE	ND	mg/L	0.0060			
		Surrogate: 2-Fluorobiphenyl	46.9 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	231 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	65.7 %	%RECOVERY	50-150			
Semi-Volatile Org	ganics by Gas Chron	natography/ECD						
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.0040	DM	08/03/2005 14:30	



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 3 OF 13

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H02001 - General Prep	aration									
QC SAMPLE: Reference (5H02001-SRM1)					Prepared	& Analyze	d: 08/02/05			
рН	4.99		SU	5.00		99.8	97.5-102			
QC SAMPLE: Reference (5H02001-SRM2))				Prepared	& Analyze	d: 08/02/05			
рН	7.98		SU	8.00		99.8	97.5-102			
BATCH: Batch 5H03016 - General Prep	aration		•							
QC SAMPLE: Blank (5H03016-BLK1)			,		Prepared:	08/02/05	Analyzed: 0	8/03/05		
TOTAL OIL AND GREASE	ND	2.0	mg/L							
QC SAMPLE: LCS (5H03016-BS1)					Prepared:	08/02/05	Analyzed: 0	8/03/05		
TOTAL OIL AND GREASE	30.6	2.0	mg/L	79.5		38.5	79-114			A-01b
QC SAMPLE: LCS Dup (5H03016-BSD1)					Prepared:	08/02/05	Analyzed: 0	8/03/05		
TOTAL OIL AND GREASE	33.3	2.0	mg/L	79.5		41.9	79-114	8.45	18	
BATCH: Batch 5H03017 - General Prep	aration									
QC SAMPLE: Blank (5H03017-BLK1)					Prepared	& Analyze	d: 08/03/05			
NONPOLAR OIL & GREASE	ND	2	mg/L						,—	
QC SAMPLE: LCS (5H03017-BS1)					Prepared	& Analyze	d: 08/03/05			
NONPOLAR OIL & GREASE	9.40	2	mg/L	16.4		57.3	66-114			A-01
QC SAMPLE: LCS Dup (5H03017-BSD1)					Prepared	& Analyze	d: 08/03/05			
NONPOLAR OIL & GREASE	10.0	2	mg/L	16.4		61.0	66-114	6.19	24	A-01



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 4 OF 13

General Bench Analysis - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 5H03019 - General Prepa	aration									
QC SAMPLE:	Blank (5H03019-BLK1)					Prepared	& Analyzed	I: 08/03/05			
CYANIDE		ND	0.0030	mg/L							
QC SAMPLE:	Duplicate (5H03019-DUP1)		<u></u>	Source: 508	0204-01	Prepared	& Analyzed	1: 08/03/05			
CYANIDE		ND	0.0030	mg/L		ND				20	
QC SAMPLE:	Reference (5H03019-SRM1)					Prepared	& Analyzed	1: 08/03/05			
CYANIDE		97.7	0.0030	mg/L	100		97.7	90-110			
BATCH: Batc	h 5H04004 - General Prepa	ration									
QC SAMPLE:	Blank (5H04004-BLK1)					Prepared	& Analyzed	1: 08/04/05			
TOTAL SUSPENI	DED SOLIDS	ND	1.0	mg/L							
QC SAMPLE:	Duplicate (5H04004-DUP1)			Source: 508	0304-01	Prepared	& Analyzed	1: 08/04/05			
TOTAL SUSPENI	DED SOLIDS	28.0	1.0	mg/L		30			6.90	20	
QC SAMPLE:	Reference (5H04004-SRM1)					Prepared	& Analyzed	1: 08/04/05			
TOTAL SUSPEND	DED SOLIDS	93.0	1.0	mg/L	101		92.1	80-120			



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 5 OF 13

Total Mercury by Cold Vapor Atomic Absorption - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 5H03011 - ***Metals Prep	***									
QC SAMPLE:	Calibration Blank (5H03011-C	CB1)				Prepared -	& Analyzed	: 08/03/05			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (5H03011-C	CB2)				Prepared -	& Analyzed	: 08/03/05			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (5H03011-SRM1)					Prepared -	& Analyzed	: 08/03/05			
MERCURY		0.182	0.0500	mg/L	0.200		91.0	85-115			
QC SAMPLE:	Reference (5H03011-SRM2)					Prepared	& Analyzed	: 08/03/05			
MERCURY		0.178	0.0500	mg/L	0.200		89.0	85-115			



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 6 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 5H02007 - ***Metals Prep***									
QC SAMPLE:	Calibration Blank (5H02007-CCB1)				Prepared of	& Analyzed	: 08/02/05			
ANTIMONY	ND	0.018	mg/L						_	
ARSENIC	ND	0.009	ır							
CADMIUM	ND	0.003	"							
CHROMIUM	ND	0.004	n n							
COBALT	ND	0.0090	п							
COPPER	ND	0.004	n							
LEAD	ND	0.004								
MOLYBDENUM	ND	0.027	n							
NICKEL	ND	0.018	"							
SELENIUM	ND	0.090	n							
SILVER	ND	0.009	"							
TIN	ND	0.036	"							
TITANIUM	ND	0.045	"							
VANADIUM	ND	0.0090								
ZINC	ND	0.003	"							
QC SAMPLE:	Calibration Blank (5H02007-CCB2)				Prepared of	& Analyzed	: 08/02/05			
ANTIMONY	ND	0.018	mg/L		<u> </u>					
ARSENIC	ND	0.009	"							
CADMIUM	ND	0.003	"							
CHROMIUM	ND	0.004	· ·							
COBALT	ND	0.0090	· ·							
COPPER	ND	0.004	· ·							
LEAD	. ND	0.004								
MOLYBDENUM	ND	0.027	n							
NICKEL	· ND	0.018	"							
SELENIUM	ND	0.090	,,							
SILVER	ND	0.009	,,							
TIN	ND	0.036	"							
TITANIUM	ND	0.045	,,							
VANADIUM	ND	0.0090	"							
ZINC	ND	0.003	"							



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 7 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	ch 5H02007 - ***Metals Pre	p***					_				
QC SAMPLE:	Reference (5H02007-SRM1)		•••			Prepared	& Analyzed	: 08/02/05			
ANTIMONY		1.01	0.018	mg/L	1.00		101	85-115			
ARSENIC		1.01	0.009		1.00		101	85-115			
CADMIUM		0.972	0.003		1.00		97.2	85-115			
CHROMIUM		1.01	0.004		1.00		101	85-115			
COBALT		1.01	0.0090		1.00		101	85-115			
COPPER		1.04	0.004		1.00		104	85-115			
LEAD		1.03	0.004		1.00		103	85-115			
MOLYBDENUM		1.06	0.027	H	1.00		106	85-115			
NICKEL		1.04	0.018	•	1.00		104	85-115			
SELENIUM		1.00	0.090	n	1.00		100	85-115			
TITANIUM		1.02	0.045		1.00		102	85-115			
VANADIUM		1.02	0.0090	14	1.00		102	85-115			
ZINC		0.996	0.003	**	1.00		99.6	85-115			
QC SAMPLE:	Reference (5H02007-SRM2)					Prepared 8	& Analyzed	: 08/02/05			
ANTIMONY		1.01	0.018	mg/L	1.00		101	85-115			
ARSENIC		1.01	0.009	11	1.00		101	85-115			
CADMIUM		1.00	0.003		1.00		100	85-115			
CHROMIUM		1.03	0.004	11	1.00		103	85-115			
COBALT		1.04	0.0090	"	1.00		104	85-115			
COPPER		1.02	0.004	н	1.00		102	85-115			
LEAD		1.02	0.004	11	1.00		102	85-115			
MOLYBDENUM		1.02	0.027	11	1.00		102	85-115			
NICKEL		1.03	0.018		1.00		103	85-115			
SELENIUM		1.03	0.090	0	1.00		103	85-115			
TITANIUM		1.02	0.045	н	1.00		102	85-115			
VANADIUM		1.01	0.0090	10	1.00		101	85-115			
ZINC		1.02	0.003	**	1.00		102	85-115			

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 8 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 5H02007 - ***Metals Pre	p***									
QC SAMPLE:	Reference (5H02007-SRM3)					Prepared -	& Analyzed	: 08/02/05			
SILVER		0.467	0.009	mg/L	0.500		93.4	85-115			
QC SAMPLE:	Reference (5H02007-SRM4)					Prepared	& Analyzed	: 08/02/05	•		
SILVER		0.489	0.009	mg/L	0.500		97.8	85-115			
QC SAMPLE:	Reference (5H02007-SRM5)					Prepared	& Analyzed	: 08/02/05			
TIN		0.986	0.036	mg/L	1.00		98.6	90-110			
QC SAMPLE:	Reference (5H02007-SRM6)					Prepared	& Analyzed	: 08/02/05			
TIN		0.950	0.036	mg/L	1.00		95.0	90-110			



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 9 OF 13

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H03005 - Volatiles										
QC SAMPLE: Blank (5H03005-BLK1)					Prepared	& Analyzed	: 08/03/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	**							
1,2-DICHLOROBENZENE	ND	0.0005	**			,				
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Fluorobenzene	0.005322		n	0.00809		65.7	50-150			
Surrogate: Chlorobenzene-d5	0.007605		"	0.00809		93.9	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009234		"	ō.00809		114	50-150			
QC SAMPLE: Blank (5H03005-BLK2)					Prepared	& Analyzed	: 08/03/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROBENZENE	ND	0.0005								
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Fluorobenzene	0.005498		"	0.00809		67.9	50-150			
Surrogate: Chlorobenzene-d5	0.008949		"	0.00809		111	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007969		"	0.00809		98.4	50-150			
QC SAMPLE: Reference (5H03005-SRM	11)				Prepared of	& Analyzed	: 08/03/05			
CHLOROBENZENE	0.01026	0.0005	mg/L	0.01000		103	50-150			
CHLOROFORM	0.008020	0.0005	"	0.01000		80.2	50-150			
1,2-DICHLOROBENZENE	0.01188	0.0005	н	0.01000		119	50-150			
TRICHLOROETHYLENE	0.008080	0.0005	"	0.01000		80.8	50-150			
Surrogate: Fluorobenzene	0.006730		"	0.00809		83.1	50-150			
Surrogate: Chlorobenzene-d5	0.009165		"	0.00809		113	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.01012		"	0.00809		125	50-150			



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 10 OF 13

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H03005 - Volatile	es									
QC SAMPLE: Reference (5H03005	-SRM2)				Prepared of	& Analyzed	: 08/03/05			
CHLOROBENZENE	0.008270	0.0005	mg/L	0.01000		82.7	50-150			
CHLOROFORM	0.007680	0.0005	"	0.01000		76.8	50-150			
1,2-DICHLOROBENZENE	0.01029	0.0005	"	0.01000		103	50-150			
TRICHLOROETHYLENE	0.008180	0.0005	"	0.01000		81.8	50-150			
Surrogate: Fluorobenzene	0.007993		"	0.00809		98.7	50-150			
Surrogate: Chlorobenzene-d5	0.008554		"	0.00809		106	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008978		"	ō.00809		111	50-150			
QC SAMPLE: Reference (5H03005-	-SRM3)				Prepared 6	& Analyzed	: 08/03/05			
ACRYLONITRILE	0.05056	0.0100	mg/L	0.1000		50.6	0-200			
Surrogate: Fluorobenzene	0.005710		"	0.00809		70.5	50-150	-		
Surrogate: Chlorobenzene-d5	0.009042		. "	0.00809		112	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.01010		"	ō.00809		125	50-150			
QC SAMPLE: Reference (5H03005-	-SRM4)				Prepared of	& Analyzed	: 08/03/05			
ACRYLONITRILE	0.06429	0.0100	mg/L	0.1000		64.3	0-200			
Surrogate: Fluorobenzene	0.005315		u	0.00809		65.7	50-150			
Surrogate: Chlorobenzene-d5	0.009079		"	ō.00809		112	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.01052		"	ō.00809		130	50-150			



REPORT DATE: 08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 11 OF 13

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte Resu	Detectio		Spike Level		%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H03001 - *** Organic Prep ***							-	
QC SAMPLE: Calibration Blank (5H03001-CCB1)				Prepared: 08/02/05	Analyzed: 0	8/03/05		
a-TERPINEOL N	D 0.9	98 mg/L						
2,4-DINITROTOLUENE N	D 2	.0 "						
NITROBENZENE N	D 0.9	98 "						
Surrogate: 2-Fluorobiphenyl 14	.8	"	20.0	74.0	50-150			
Surrogate: Nitrobenzene-D5 27	.5	"	20.0	138	50-150			
Surrogate: p-terphenyl-D14 18	.2	,	20.0	91.0	50-150			
QC SAMPLE: Calibration Blank (5H03001-CCB2)				Prepared: 08/02/05	Analyzed: 0	8/03/05		
a-TERPINEOL N	D 0.9	18 mg/L						
2,4-DINITROTOLUENE N	D 2	.0 "						
NITROBENZENE	D 0.9	98 "						
Surrogate: 2-Fluorobiphenyl 20	.3	0	20.0	102	50-150			
Surrogate: Nitrobenzene-D5 36	.9	"	20.0	184	50-150			
Surrogate: p-terphenyl-D14 19	.0	"	20.0	95.0	50-150			
QC SAMPLE: Reference (5H03001-SRM1)				Prepared: 08/02/05	Analyzed: 0	8/03/05		
a-TERPINEOL N	D 0.9	8 mg/L	26.0		50-150			N-01
2,4-DINITROTOLUENE 30	.6 2	.0 "	25.0	122	80-120			SRM-3
NITROBENZENE 24	0.0	8 "	25.0	96.0	80-120			
Surrogate: 2-Fluorobiphenyl 25	.6	n	25.0	102	50-150			
Surrogate: Nitrobenzene-D5 27	.0	n	25.0	108	50-150			
Surrogate: p-terphenyl-D14 24	.9	,,	25.0	99.6	50-150			
QC SAMPLE: Reference (5H03001-SRM2)				Prepared: 08/02/05	Analyzed: 0	8/03/05		
a-TERPINEOL N	D 0.9	98 mg/L	26.0		50-150			N-01
2,4-DINITROTOLUENE 26	.8 2	.0 "	25.0	107	80-120			
NITROBENZENE 28	.8 0.9	18 "	25.0	115	80-120			
Surrogate: 2-Fluorobiphenyl 25	.9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	25.0	104	50-150			
Surrogate: Nitrobenzene-D5 30	.0	"	25.0	120	50-150			
Surrogate: p-terphenyl-D14 28	.9	и	25.0	116	50-150			



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 12 OF 13

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H03006 - *** Org	anic Prep ***									
QC SAMPLE: Calibration Blank (5)	H03006-CCB1)				Prepared	& Analyzed	: 08/02/05			
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: Phenol-d6	53.9		"	40.0		135	50-180			
Surrogate: 2,4,6-Tribromophenol	68.3		"	40.0		171	50-180			
QC SAMPLE: Calibration Blank (5)	H03006-CCB2)				Prepared:	08/02/05	Analyzed: 0	8/03/05		
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: Phenol-d6	45.0		"	40.0		112	50-150			
Surrogate: 2,4,6-Tribromophenol	54.4		n	40.0		136	50-150			
QC SAMPLE: Reference (5H03006	-SRM1)				Prepared of	& Analyzed	: 08/02/05			
PENTACHLOROPHENOL	25.0	4.9	mg/L	25.0	·	100	80-120			
Surrogate: Phenol-d6	24.9		"	- 25.0		99.6	50-150			
Surrogate: 2,4,6-Tribromophenol	36.7		"	25.0		147	50-150			
QC SAMPLE: Reference (5H03006	-SRM2)				Prepared:	08/02/05	Analyzed: 0	8/03/05		
PENTACHLOROPHENOL	21.9	4.9	mg/L	25.0		87.6	80-120			
Surrogate: Phenol-d6	28.0		"	25.0		112	50-150	·		
Surrogate: 2,4,6-Tribromophenol	49.5		"	25.0		198	50-150			SRM-3



REPORT DATE:

08/05/05 11:57

REPORT NUMBER:5080107

PAGE: 13 OF 13

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/	/Analyte Re	sult _	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 5H03012 - *** Organic Prep	***									
QC SAMPLE:	Calibration Blank (5H03012-CCE	31)				Prepared:	08/02/05	Analyzed: (08/03/05		
CHLORDANE		ND	0.65	mg/L							
QC SAMPLE:	AMPLE: Calibration Blank (5H03012-CCB2) Prepared: 08/02/05 Analyzed: 08/03/05										
CHLORDANE		ND	0.65	mg/L							
Data Qualifier Qualifier	Notes										_
A-01	Non-polar recovery due to a pro	blem wi	th the standard.								
A-01a	Residue re-extracted to remove	crystals	of sodium sulfa	ite.	,						_
A-01b	Results accepted based on othe	r QC pa	rameters.								
N-01	Compound not present in this st	andard.									_
S-05	This surrogate recovery is outside of control limits. The data was accepted based on valid recovery of remaining surrogates.										
SRM-3	The SRM of this compound was	high. H	owever, data re	ported as "	none det	ected" wer	e accepted				



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Source Name Cascade General Name Lian Jewell Address Cascade General Source Address 5555 N. Channel Ave 5555 N. Channel Ave. Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 Facsimile Number 503/247-6050 **Email Address** Batch Information CWTBliewell@vigorindustrial.net Batch Number: Proposed Discharge 600,000 gal Volume:* Request Date/Time: Actual Discharge 9/28/2007 1100 Volume: Date Proposed: Sampling Location: Tank-7, BWTP 10/1/2007 Duration of Discharge: Stop: Sampled? YES NO Start: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below 150 gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: Date of Approval: /2007 YES or NO Approved By: Wesley McDaniel Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system,

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:
0	

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:	Cas

scade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

August, 2007

For Industrial	Source Control	Division	Use	Only
	Org 2159			

Date Postmarked/Received

Date Entered

Entered By:

Comments:

SAMPLE DATE	SAMPLE DATE POINT OF COMPLIANCE S		SA	MPLE TYPE			
8/30/2007	CV	VT2B		GRAB			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA	Section of Post and	MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	10.7 mg/L		2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	5.6 mg/L		2.0	110 mg/L	N/A	
Cyanide	SM 4500	0.0066 mg/L		0.0030	1.2 mg/L	N/A	
Sulfide	EPA 376.1	4.0		1.0	4.0 mg/L	N/A	
pH	EPA 150.1	6.80 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND		0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND		0.0070	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND		0.0100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND		0.0070	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND		0.0070	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND		0.00117	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND		0.0005	0.2 mg/L	N/A	
Chloroform	EPA 624	ND		0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND		0.0070	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND		0.0070	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND		0.0070	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND		0.0070	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND		0.0350	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND		0.0005	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-1. Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE				
8/30/2007	CV	/T2B	COMPOSITE				
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		LIN DAILY	LIMITS DAILY MONTHLY		
Antimony (Total)	EPA 200.7	ND	0.020	0.237 mg/L	0.141 mg/L		
Arsenic (Total)	EPA 200.7	ND	0.010	0.2 mg/L	N/A		
Barium (Total)	EPA 200.7	ND	0.002	0.427 mg/L	0.281 mg/L		
Cadmium (Total)	EPA 200.7	0.13 mg/L	0.003	0.7 mg/L	N/A		
Chromium (Total)	EPA 200.7	0.009 mg/L	0.005	0.947 mg/L	0.487 mg/L		
Cobalt (Total)	EPA 200.7	ND	0.010	56.4 mg/L	18.8 mg/L		
Copper (Total)	EPA 200.7	ND	0.005	0.405 mg/L	0.301 mg/L		
Lead (Total)	EPA 200.7	0.061 mg/L	0.005	0.222 mg/L	0.172 mg/L		
Mercury (Total)	EPA 245.7	ND	0.00005	0.01 mg/L	N/A		
Molybdenum (Total)	EPA 200.7	0.063 mg/L	0.005	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	ND	0.020	2.8 mg/L	N/A		
Selenium (Total)	EPA 200.7	ND	0.10	0.6 mg/L	N/A		
Silver (Total)	EPA 200.7	0.060 mg/L	0.010	0.4 mg/L	N/A		
Tin (Total)	EPA 200.7	ND	0.040	0.4 mg/L	N/A		
Zinc (Total)	EPA 200.7	ND	0.003	3.7 mg/L	N/A		

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:		Date:		
0	Color to the second second second second second second second second second second second second second second			



CLIENT: Cascade General

ATTN: Bob Collinson

P.O. Box 4367 Portland OR, 97208

PHONE: (503) 247-1634

FAX: (503) 247-1680

PROJECT NAME: Wastewater Disch Permit Test -A Subcat

SUBMITTED: 08/30/07 15:35

REPORT DATE: 09/19/07 11:56

REPORT NUMBER: 7083008

PAGE: 1 OF 19

CISAMPLE	CLIENTS ID#		DATE	TIME	MATRIX			
7083008-01	T-7-07-30-07 Industri	al Water	08/30	/2007 1330	Water	_		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	REPORTING LIMIT	TECH	DATE/TIME	NOTES
7083008-01	SAMPLE ID: T-7-0	7-30-07 Industrial Water						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	0.0066	mg/L	0.0030	kc	09/07/2007 10:18	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	5.6	mg/L	2.0	JRW	09/11/2007 11:30	
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	10.7	mg/L	2.0	JRW	09/11/2007 11:30	
PH	EPA 150.1/9040	pH	6.80	SU		kc	08/30/2007 17:00	
		TEMPERATURE (C)	19.4	SU				
SULFIDE	EPA 376.1	SULFIDE	4.0	mg/L	1.0	kc	08/31/2007 12:45	
Total Mercury by	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631E	MERCURY	ND	mg/L	0.000050	KEL	09/07/2007 14:45	
Total Metals by	Inductively Coupled	d Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ÄNTIMONY	ND	mg/L	0.020	KEL	09/14/2007 14:00	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	KEL	09/13/2007 15:51	
BARIUM - ICP		BARIUM	ND	mg/L	0.002	KEL	09/13/2007 17:32	-
CADMIUM - ICP		CADMIUM	0.13	mg/L	0.003	KEL	09/13/2007 14:15	
CHROMIUM - ICP		CHROMIUM	0.009	mg/L	0.005	KEL	09/13/2007 14:15	
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	09/17/2007 15:25	
COPPER - ICP	,	COPPER	ND	mg/L	0.005	KEL	09/11/2007 07:35	
LEAD - ICP		LEAD	0.061	mg/L	0.005	KEL	09/11/2007 07:35	
MOLYBDENUM -		MOLYBDENUM	0.063	mg/L	0.005	KEL	09/14/2007 14:00	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	KEL	09/13/2007 14:15	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	09/13/2007 14:15	
SILVER - ICP		SILVER	0.060	mg/L	0.010	KEL	09/13/2007 17:32	
TIN - ICP		TIN	ND	mg/L	0.040	KEL	09/17/2007 15:27	
ZINC - ICP		ZINC	ND	mg/L	0.003	KEL	09/11/2007 07:35	
Volatile Organic	s by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	JRW	09/11/2007 09:39	

This report may not be reproduced except in full.

Authorized for Release By:

Charles Morrow - Laboratory Director

Charles Morrow

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone:(503) 286-9464 Fax:(503) 286-5355 E-mail:lab@ColumbiaInspection.com



REPORT DATE	: 09/19/07 11:5	6 REPORT I	PAGE: 2 OF 19					
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	REPORTING LIMIT	TECH	DATE/TIME	NOTES
7083008-01	SAMPLE ID: T-7-07	-30-07 Industrial Water						
Volatile Organic	s by Gas Chromatog	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	CHLOROBENZENE	ND	mg/L	0.0005	JRW	09/11/2007 09:39	
		CHLOROFORM	ND	mg/L	0.0005			
		1,2-DICHLOROETHANE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	64.6 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	96.1 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	111 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	84.4 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chro	matography/Mass Spectroscopy	100					
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0350	DM	09/05/2007 16:22	
		Surrogate: Phenol-d6	39.0 %	%RECOVERY	13-150			
		Surrogate: 2,4,6-Tribromophenol	93.0 %	%RECOVERY	50-150			
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.00700	DM	09/05/2007 16:22	
		CARBAZOLE	ND	mg/L	0.00700			
		N-DECANE	ND	mg/L	0.00700			
		2,4-DINITROTOLUENE	ND	mg/L	0.00700			
		FLUORANTHENE	ND	mg/L	0.00700			
	•	NITROBENZENE	ND	mg/L	0.00700			
		N-OCTADECANE	ND	mg/L	0.00700			
		Surrogate: 2-Fluorobiphenyl	72.7 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	84.3 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	56.3 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chro	matography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0035	DM	09/07/2007 10:09	
		AROCHLOR 1221	ND	mg/L	0.0035			
		AROCHLOR 1232	ND	mg/L	0.0035			
		AROCHLOR 1242	ND	mg/L	0.0035			
		AROCHLOR 1248	ND	mg/L	0.0035		*	
		AROCHLOR 1254	ND	mg/L	0.0035			
		AROCHLOR 1260	ND	mg/L	0.0035			
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00117	ZZZ	09/05/2007 16:22	
		ALPHA-CHLORDANE	ND	mg/L	0.00117			
		GAMMA-CHLORDANE	ND	mg/L	0.00117			





REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 3 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyt	e	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7H3	1006 - General Prepa	aration									
QC SAMPLE: Duplic	cate (7H31006-DUP1)			Source: 7083	3008-01	Prepared 8	& Analyzed	1: 08/30/07			
pH		6.81		SU		6.80			0.147	10	
TEMPERATURE (C)		19.3		**		19.4			0.517	200	
QC SAMPLE: Refere	ence (7H31006-SRM1)					Prepared 8	& Analyzec	1: 08/30/07			
рН		5.01		SU	5.00		100	97.5-102			
QC SAMPLE: Refer	ence (7H31006-SRM2)					Prepared 8	k Analyzed	1: 08/30/07			
рН		8.00		SU	8.00		100	97.5-102			
BATCH: Batch 7H3	1016 - General Prepa	aration									
QC SAMPLE: Duplie	cate (7H31016-DUP1)			Source: 7083	3008-01	Prepared 8	& Analyzed	1: 08/31/07			
SULFIDE		4.00	1.0	mg/L		4.0			0.00	200	
BATCH: Batch 7106	027 - General Prepa	ration									
QC SAMPLE: Blank	(7106027-BLK1)					Prepared: (09/05/07	Analyzed: 09	9/07/07		
CYANIDE, TOTAL		ND	0.0030	mg/L							
QC SAMPLE: Refere	ence (7l06027-SRM1)					Prepared: (09/05/07	Analyzed: 09	9/07/07		
CYANIDE, TOTAL		0.575	0.030	mg/L	0.650	· ·	88.5	70.1-130			
BATCH: Batch 7I11	008 - Water Extracti	on									
QC SAMPLE: Blank	(7I11008-BLK1)					Prepared: (09/10/07	Analyzed: 09	9/11/07		
NONPOLAR OIL & GREA	SE	ND	2.0	mg/L							
TOTAL OIL AND GREASE		ND	2.0	**							

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 4 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7I11008 - Water Extr	action									
QC SAMPLE: LCS (7I11008-BS1)					Prepared:	09/10/07	Analyzed: 0	9/11/07		
NONPOLAR OIL & GREASE	20.4	2.0	mg/L	22.1		92.3	66-114			
TOTAL OIL AND GREASE	36.2	2.0	11	43.0		84.2	79-114			
QC SAMPLE: LCS Dup (7111008-BSD	1)				Prepared:	09/10/07	Analyzed: 0	9/11/07		
NONPOLAR OIL & GREASE	23.1	2.0	mg/L	22.1		105	66-114	12.4	24	
TOTAL OIL AND GREASE	40.2	2.0	"	43.0		93.5	79-114	10.5	18	



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 5 OF 19

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample								%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7107008 - ***Metals Prep)***									
QC SAMPLE:	Blank (7107008-BLK1)					Prepared 8	& Analyzed	: 09/07/07			
MERCURY		ND	0.000001	mg/L							
QC SAMPLE:	Calibration Blank (7107008-	CCB1)				Prepared 8	& Analyzed	: 09/07/07			
MERCURY		NĐ	0.000001	mg/L							
QC SAMPLE:	Calibration Blank (7107008-	CCB2)				Prepared &	& Analyzed	: 09/07/07			
MERCURY		ND	0.000001	mg/L							
QC SAMPLE:	Reference (7I07008-SRM1)					Prepared 8	& Analyzed	: 09/07/07			
MERCURY		0.00021	0.000001	mg/L 0	.00020		,105	90-110			
QC SAMPLE:	Reference (7I07008-SRM2)					Prepared 8	& Analyzed	: 09/07/07			
MERCURY		0.00020	0.000001	mg/L 0	.00020		100	90-110			

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 6 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7l11001 - ***Metals Pr	ep***	· · · · · · · · · · · · · · · · · · ·								
QC SAMPLE:	Blank (7111001-BLK1)					Prepared 8	& Analyzed	: 09/11/07			
COPPER		ND	0.0009	mg/L							
LEAD		ND	0.0009	*							
ZINC		ND	0.0009	"							
QC SAMPLE:	Calibration Blank (711100	11-CCB1)				Prepared 8	& Analyzed	: 09/11/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	"							
ZINC		ND	0.003	"							
QC SAMPLE:	Calibration Blank (711100	1-CCB2)				Prepared 8	& Analyzed	: 09/11/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	**							
ZINC		ND	0.003	"							
QC SAMPLE:	Calibration Blank (711100	1-CCB3)				Prepared &	& Analyzed	: 09/11/07			
COPPER		ND	0.004	mg/L							
LEAD		ND	0.004	"							
ZINC		ND	0.003	**							
QC SAMPLE:	Reference (7l11001-SRM	1)				Prepared 8	& Analyzed	: 09/11/07			
COPPER		0.939	0.004	mg/L	1.00		93.9	85-115			
LEAD		0.966	0.004		1.00		96.6	85-115			
ZINC		1.14	0.003	**	1.00		114	85-115			
QC SAMPLE:	Reference (7I11001-SRM	2)				Prepared 8	& Analyzed	: 09/11/07			
COPPER		0.953	0.004	mg/L	1.00		95.3	85-115			
LEAD		1.04	0.004		1.00		104	85-115			
ZINÇ		1.15	0.003	ч	1.00		115	85-115			





REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 7 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7l11001 - ***Metals Prep*	**									
QC SAMPLE:	Reference (7I11001-SRM3)					Prepared a	& Analyzed	: 09/11/07			
COPPER		0.988	0.004	mg/L	1.00		98.8	85-115			
LEAD		1.07	0.004	"	1.00		107	85-115			
ZINC		1.15	0.003	"	1.00		115	85-115			
BATCH: Batc	h 7l13009 - ***Metals Prep*	**								····	
QC SAMPLE:	Blank (7l13009-BLK1)					Prepared a	& Analyzed	: 09/13/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004	"							
NICKEL		ND	0.018	"							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (7l13009-C	CB1)				Prepared (& Analyzed	: 09/13/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004	"							
NICKEL		ND	0.018	"							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (7l13009-C	CB2)				Prepared 6	& Analyzed	: 09/13/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004								
NICKEL		ND	0.018								
SELENIUM		ND	0.090								
QC SAMPLE:	Calibration Blank (7I13009-C	CB3)				Prepared	& Analyzed	: 09/13/07			
CADMIUM		ND	0.003	mg/L							
CHROMIUM		ND	0.004	"							
NICKEL		ND	0.018	"							
SELENIUM		ND	0.090	"							

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 8 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7l13009 - ***Metals Prep	***									
QC SAMPLE:	Matrix Spike (7l13009-MS1)			Source: 709	0603-02	Prepared 8	& Analyzed	: 09/13/07			
CHROMIUM		0.156	0.005	mg/L	0.111	0.030	114	80-120			
QC SAMPLE:	Reference (7I13009-SRM1)	7-4		79.24		Prepared 8	& Analyzed	: 09/13/07			
CADMIUM		1.10	0.003	mg/L	1.00		110	85-115			
CHROMIUM		0.988	0.004	· ·	1.00		98.8	85-115			
NICKEL		1.10	0.018	н	1.00		110	85-115			
SELENIUM		1.02	0.090	"	1.00		102	85-115			
QC SAMPLE:	Reference (7I13009-SRM2)					Prepared 8	& Analyzed	: 09/13/07			
CADMIUM		1.13	0.003	mg/L	1.00		113	85-115			
CHROMIUM		1.01	0.004	"	1.00		101	85-115			
NICKEL		1.07	0.018	**	1.00		107	85-115			
SELENIUM		0.930	0.090	*1	1.00		93.0	85-115			
QC SAMPLE:	Reference (7I13009-SRM3)					Prepared 8	& Analyzed	: 09/13/07			
CADMIUM		1.08	0.003	mg/L	1.00		108	85-115			
CHROMIUM		1.05	0.004	"	1.00		105	85-115			
NICKEL		1.04	0.018		1.00		104	85-115			
SELENIUM		1.06	0.090	*1	1.00		106	85-115			
BATCH: Batc	h 7l13013 - ***Metals Prep	***									
QC SAMPLE:	Blank (7l13013-BLK1)					Prepared 8	& Analyzed	: 09/13/07			
ARSENIC	-	ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (7l13013-0	CCB1)				Prepared 8	& Analyzed	: 09/13/07			
ARSENIC		ND	0.009	mg/L			-				

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 9 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	:h 7l13013 - ***Metals	Prep***									
QC SAMPLE:	Calibration Blank (711	3013-CCB2)				Prepared 8	& Analyzed	: 09/13/07			
ARSENIC		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (711	3013-CCB3)				Prepared 8	& Analyzed	: 09/13/07			
ARSENIC		ND	0.009	mg/L							
QC SAMPLE:	Matrix Spike (7113013-	MS1)		Source: 7090	603-02	Prepared 8	& Analyzed	09/13/07			
ARSENIC		0.112	0.010	mg/L	0.111	ND	101	80-120			
QC SAMPLE:	Matrix Spike Dup (711:	3013-MSD1)		Source: 7090	603-02	Prepared 8	& Analyzed	09/13/07			
ARSENIC		0.116	0.010	mg/L	0.111	ND	105	80-120	3.51	15	
QC SAMPLE:	Reference (7I13013-SI	RM1)				Prepared 8	& Analyzed	09/13/07			
ARSENIC		0.998	0.009	mg/L	1.00		99.8	85-115			
QC SAMPLE:	Reference (7I13013-SI	RM2)				Prepared 8	& Analyzed	09/13/07			
ARSENIC		0.915	0.009	mg/L	1.00		91.5	85-115			
QC SAMPLE:	Reference (7I13013-SI					Prepared 8	& Analyzed				
ARSENIC		0.930	0.009	mg/L	1.00		93.0	85-115			
BATCH: Batc	h 7l13017 - ***Metals	Prep***									
QC SAMPLE:	Blank (7!13017-BLK1)					Prepared 8	& Analyzed	: 09/13/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	ų							
QC SAMPLE:	Calibration Blank (711					Prepared 8	& Analyzed	: 09/13/07			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009								





REPORT DATE: 09/19/07 11:56 REPORT NUMBER:7083008 PAGE: 10 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 7l13017 - ***Metals Pre	p***									
QC SAMPLE:	Calibration Blank (7l13017	-CCB2)				Prepared 8	& Analyzed	: 09/13/07			
BARIUM SILVER		ND ND	0.002 0.009	mg/L "		·		_			
QC SAMPLE:	Calibration Blank (7l13017	-CCB3)				Prepared &	& Analyzed	: 09/13/07			
BARIUM SILVER		ND ND	0.002 0.009	mg/L "			,				
QC SAMPLE:	Reference (7I13017-SRM1)					Prepared 8	& Analyzed	: 09/13/07			
BARIUM SILVER		1.02 0.521	0.002 0.009	mg/L "	1.00 0.500		102 104	85-115 85-115			
QC SAMPLE:	Reference (7I13017-SRM2)	ı				Prepared 8	& Analyzed	: 09/13/07			
BARIUM SILVER		1.01 0,541	0.002 0.009	mg/L "	1.00 0.500		101 108	85-115 85-115			
QC SAMPLE:	Reference (7I13017-SRM3)					Prepared 8	& Analyzed	: 09/13/07			
BARIUM SILVER		1.06 0.520	0.002 0.009	mg/L "	1.00 0.500		106 104	85-115 85-115	., .		
BATCH: Batc	h 7l14009 - ***Metals Pre	p***				·					
QC SAMPLE:	Blank (7I14009-BLK1)					Prepared &	& Analyzed	: 09/14/07			
ANTIMONY MOLYBDENUM		ND ND	0.018 0.004	mg/L							
QC SAMPLE:	Calibration Blank (7114009	-CCB1)				Prepared 8	& Analyzed	: 09/14/07			
ANTIMONY MOLYBDENUM		ND ND	0.018 0.004	mg/L "							

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 11 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD .	RPD Limit	Notes
BATCH: Batc	h 7l14009 - ***Metals Prep	***									
QC SAMPLE:	Calibration Blank (7114009-0	CCB2)				Prepared	& Analyzed	: 09/14/07			
ANTIMONY		ND	0.018	mg/L							
MOLYBDENUM		ND	0.004	"							
QC SAMPLE:	Reference (7I14009-SRM1)		·			Prepared .	& Analyzed	: 09/14/07			
ANTIMONY		1.08	0.018	mg/L	1.00		108	85-115			
MOLYBDENUM		1.04	0.004	n	1.00		104	85-115			
QC SAMPLE:	Reference (7I14009-SRM2)					Prepared	& Analyzed	: 09/14/07			
ANTIMONY		0.910	0.018	mg/L	1.00		91.0	85-115			
MOLYBDENUM		1.01	0.004	н	1.00		101	85-115			
BATCH: Batc	h 7l17006 - ***Metals Prep	***									
QC SAMPLE:	Blank (7l17006-BLK1)					Prepared	& Analyzed	: 09/17/07			
COBALT		ND	0.010	mg/L							
QC SAMPLE:	Calibration Blank (7117006-0	CCB1)				Prepared -	& Analyzed	: 09/17/07			
COBALT		ND	0.010	mg/L							
QC SAMPLE:	Calibration Blank (7117006-0	CB2)				Prepared	& Analyzed	: 09/17/07			
COBALT	1	ND	0.010	mg/L							
QC SAMPLE:	Reference (7I17006-SRM1)					Prepared	& Analyzed	: 09/17/07			
COBALT		1.14	0.010	mg/L	1.11		103	85-115			
QC SAMPLE:	Reference (7I17006-SRM2)					Prepared	& Analyzed	: 09/17/07			
COBALT		1.09	0.010	mg/L	1.11		98.2	85-115			

This report may not be reproduced except in full.



REPORT DATE: 09/19/07 11:56 REPORT NUMBER:7083008 PAGE: 12 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD Limit	Notes	
BATCH: Batc	h 7l17007 - ***Metals Prep	***									
QC SAMPLE:	Blank (7l17007-BLK1)					Prepared	& Analyzed	l: 09/17/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7117007-0	CB1)			· —	Prepared	& Analyzed	1: 09/17/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (7117007-0	CB2)		ī		Prepared	& Analyzed	1: 09/17/07			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (7I17007-SRM1)					Prepared	& Analyzed	1: 09/17/07			
TIN		1.03	0.036	mg/L	1.00		103	90-110			
QC SAMPLE:	Reference (7l17007-SRM2)					Prepared	& Analyzed	1: 09/17/07			
TIN		1.09	0.036	mg/L	1.00		109	90-110			

This report may not be reproduced except in full.



REPORT DATE: 09/19/07 11:56 REPORT NUMBER:7083008 PAGE: 13 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7I11003 - Volatiles										
QC SAMPLE: Calibration Blank (71110	03-CCB1)				Prepared 8	& Analyzed	: 09/11/07			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	11							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	**							
Surrogate: Dibromofluoromethane	0.008220		"	0.00809		102	50-150			
Surrogate: Fluorobenzene	0.008130		"	0.00809		100	50-150			
Surrogate: Chlorobenzene-d5	0.007330		"	0.00809		90.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.005620		,,	0.00809		69. <i>4</i>	50-150			
QC SAMPLE: Calibration Blank (71110	03-CCB2)				Prepared 8	& Analyzed	: 09/11/07			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	**							
CHLOROFORM	ND	0.0005	ii.							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Fluorobenzene	0.006320		"	0.00809		78.1	50-150			
Surrogate: Chlorobenzene-d5	0.006960		"	0.00809		86.0	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007870		н	0.00809		97.2	50-150			
QC SAMPLE: Calibration Check (71110	003-CCV1)				Prepared 8	& Analyzed	: 09/11/07			
CHLOROBENZENE	0.01087	0.0005	mg/L	0.01000		109	0-200			
CHLOROFORM	0.009980	0.0005	•	0.01000		99.8	0-200			
1,2-DICHLOROETHANE	0.01008	0.0005	n	0.01000		101	0-200			
TRICHLOROETHYLENE	0.01083	0.0005	10-	0.01000		108	0-200			
Surrogate: Dibromofluoromethane	0.006640		"	0.00809		82.0	50-150			
Surrogate: Fluorobenzene	0.007500		"	0.00809		92.6	50-150			
Surrogate: Chlorobenzene-d5	0.007810		,,	0.00809		96.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006770		u	ō.00809		83.6	50-150			

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 14 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7I11003 - Volatiles	5									
QC SAMPLE: Calibration Check (7	111003-CCV2)				Prepared	& Analyzed	: 09/11/07			
CHLOROBENZENE	0.01190	0.0005	mg/L	0.01000		119	0-200			
CHLOROFORM	0.009410	0.0005	"	0.01000		94.1	0-200			
1,2-DICHLOROETHANE	0.01000	0.0005	n	0.01000		100	0-200			
TRICHLOROETHYLENE	0.01134	0.0005	"	0.01000		113	0-200			
Surrogate: Dibromofluoromethane	0.006460		"	0.00809		79.8	50-150			
Surrogate: Fluorobenzene	0.008330		"	0.00809	•	103	50-150			
Surrogate: Chlorobenzene-d5	0.008410		"	0.00809		104	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008070		n	ō.00809		99.7	50-150			

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 15 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7l06019 - *** Organic F	Prep ***									
QC SAMPLE: Blank (7l06019-BLK1)					Prepared:	09/04/07	Analyzed:	09/05/07		
PENTACHLOROPHENOL	ND	0.0325	mg/L							
Surrogate: Phenol-d6	2.14		,,	15.4		13.9	13-150			
Surrogate: 2,4,6-Tribromophenol	8.53		"	15.4		55. <i>4</i>	50-150			
QC SAMPLE: Calibration Blank (7106019	9-CCB1)				Prepared:	09/04/07	Analyzed:	09/05/07		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	45.1		"	40.0		113	50-150			
Surrogate: 2,4,6-Tribromophenol	43.1		n	40.0		108	50-150			
QC SAMPLE: Calibration Blank (7106019	9-CCB2)				Prepared:	09/04/07	Analyzed:	09/05/07		_
PENTACHLOROPHENOL	ND	4.90	mg/L					·		
Surrogate: Phenol-d6	41.9		"	40.0		105	50-150			
Surrogate: 2,4,6-Tribromophenol	45.4		n	40.0		114	50-150			
QC SAMPLE: Reference (7106019-SRM1)				Prepared:	09/04/07	Analyzed:	09/05/07		
PENTACHLOROPHENOL	10.6	4.90	mg/L	10.0		106	80-120			
Surrogate: Phenol-d6	9.92		"	10.0		99.2	50-150			
Surrogate: 2,4,6-Tribromophenol	10.0		"	10.0		100	50-150			
QC SAMPLE: Reference (7106019-SRM2)				Prepared:	09/04/07	Analyzed:	09/05/07		
PENTACHLOROPHENOL	9.74	4.90	mg/L	10.0		97.4	80-120			
Surrogate: Phenol-d6	9.91		"	10.0		99.1	50-150	*		
Surrogate: 2,4,6-Tribromophenol	10.5		и	10.0		105	50-15Ô			
BATCH: Batch 7l06021 - *** Organic F	Prep ***									
QC SAMPLE: Blank (7/06021-BLK1)					Prepared:	09/04/07	Analyzed:	09/05/07		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.00650	mg/L							
CARBAZOLE	ND	0.00650	"							
N-DECANE	ND	0.00650	"							
2,4-DINITROTOLUENE	ND	0.00650	Ü							
FLUORANTHENE	ND	0.00650	n							
NITROBENZENE	ND	0.00650	n							
N-OCTADECANE	ND	0.00650	"							
Surrogate: 2-Fluorobiphenyl	5.95		"	7.69		77.4	50-150			
Surrogate: Nitrobenzene-D5	6.43		"	7.69		83.6	50-150			
Surrogate: p-terphenyl-D14	7.10		11	7.69		92.3	50-150			

This report may not be reproduced except in full.



09/19/07 11:56 **REPORT NUMBER:7083008** PAGE: 16 OF 19 REPORT DATE:

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7l06021 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (710	6021-CCB1)				Prepared:	09/04/07	Analyzed: (9/05/07		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE	ND	0.980	"							
2,4-DINITROTOLUENE	ND	0.980	"							
FLUORANTHENE	ND	0.980	**							
NITROBENZENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	17.0		"	20.0		85.0	50-150			
Surrogate: Nitrobenzene-D5	19.8		U	20.0		99.0	50-150			
Surrogate: p-terphenyl-D14	19.4		u	20.0		97.0	50-150			
QC SAMPLE: Calibration Blank (710	6021-CCB2)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	**							
N-DECANE	ND	0.980	"							
2,4-DINITROTOLUENE	ND	0.980	**							
FLUORANTHENE	ND	0.980	"							
NITROBENZENE	ND	0.980	"							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	19.0	_	"	20.0		95.0	50-150			
Surrogate: Nitrobenzene-D5	18.1		"	20.0		90.5	50-150			
Surrogate: p-terphenyl-D14	19.1		n n	20.0		95.5	50-150			
QC SAMPLE: Reference (7106021-S	RM1)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
BIS(2-ETHYLHEXYL)PHTHALATE	10.3	0.980	mg/L	10.0		103	80-120			
CARBAZOLE	20.2	0.980	н	20.0		101	50-150			
N-DECANE	10.0	0.980	"	10.0		100	50-150			
2,4-DINITROTOLUENE	10.3	0.980	"	10.0		103	80-120			
FLUORANTHENE	9.87	0.980	'n	10.0		98.7	80-120			
NITROBENZENE	9.63	0.980	**	10.0		96.3	80-120			
N-OCTADECANE	10.1	0.980	h	9.94		102	50-150			
Surrogate: 2-Fluorobiphenyl	9.72		u	10.0		97.2	50-150			
Surrogate: Nitrobenzene-D5	9.81		u	10.0		98.1	50-150			
Surrogate: p-terphenyl-D14	9.99		n	10.0		99.9	50-150			

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 17 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7l06021 - *** Organic F	Prep ***									
QC SAMPLE: Reference (7106021-SRM2)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
BIS(2-ETHYLHEXYL)PHTHALATE	10.7	0.980	mg/L	10.0		107	80-120			
CARBAZOLE	21.7	0.980	"	20.0		108	50-150			
N-DECANE	9.34	0.980	"	10.0		93.4	50-150			
2,4-DINITROTOLUENE	10.4	0.980	***	10.0		104	80-120			
FLUORANTHENE	10.2	0.980	"	10.0		102	80-120			
NITROBENZENE	9.89	0.980	"	10.0		98.9	80-120			
N-OCTADECANE	9.44	0.980	· n	9.94		95.0	50-150			
Surrogate: 2-Fluorobiphenyl	9.78		"	10.0		97.8	50-150			
Surrogate: Nitrobenzene-D5	9.48		"	10.0		94.8	50-150			
Surrogate: p-terphenyl-D14	10.8		"	10.0		108	50-150			

This report may not be reproduced except in full.



REPORT DATE: 09/19/07 11:56 REPORT NUMBER:7083008 PAGE: 18 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD .	RPD Limit	Notes
BATCH: Batch	7106028 - *** Organic	Prep ***									
QC SAMPLE:	Blank (7106028-BLK1)					Prepared:	09/04/07	Analyzed: 0	9/05/07		
CHLORDANE		ND	0.00100	mg/L							
ALPHA-CHLORDA	NE	ND	0.00100	"							
GAMMA-CHLORD	ANE	ND	0.00100	· ·							
QC SAMPLE:	Calibration Blank (710602	8-CCB1)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
CHLORDANE		ND	0.163	mg/L							
ALPHA-CHLORDA	NE	ND	0.163								
GAMMA-CHLORD	ANE	ND	0.163	"							
QC SAMPLE:	Calibration Blank (710602	8-CCB2)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
CHLORDANE		ND	0.163	mg/L							
ALPHA-CHLORDA	NE	ND	0.163	n							
GAMMA-CHLORD	ANE	ND	0.163	"							
QC SAMPLE:	Reference (7106028-SRM	1)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
ALPHA-CHLORDA	NE	1.10	0.163	mg/L	1.00		110	50-150			
GAMMA-CHLORD	ANE	1.11	0.163	"	1.00		111	50-150			
QC SAMPLE:	Reference (7106028-SRM2	2)				Prepared:	09/04/07	Analyzed: 0	9/05/07		
ALPHA-CHLORDA	NE	1.14	0.163	mg/L	1.00		114	50-150			
GAMMA-CHLORD	ANE	1.45	0.163	"	1.00		145	50-150			
BATCH: Batch	7106031 - *** Organic	Prep ***									
QC SAMPLE:	Blank (7106031-BLK1)					Prepared:	09/04/07	Analyzed: 0	9/07/07		
AROCHLOR 1016	· · · · · · · · · · · · · · · · · · ·	ND	0.0032	mg/L							
AROCHLOR 1221		ND	0.0032	- "							
AROCHLOR 1232		ND	0.0032	"							
AROCHLOR 1242		ND	0.0032	"							
AROCHLOR 1248		ND	0.0032								
AROCHLOR 1254		ND	0.0032	"							
AROCHLOR 1260		ND	0.0032	n							

This report may not be reproduced except in full.



REPORT DATE:

09/19/07 11:56

REPORT NUMBER:7083008

PAGE: 19 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 7l06031 - *** Organic Pre	p ***									
QC SAMPLE: Calibration Blank (7106031-C	CB1)				Prepared:	09/04/07	Analyzed: 0	9/07/07		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49								
AROCHLOR 1232	ND	0.49								
AROCHLOR 1242	ND	0.49	11							
AROCHLOR 1248	ND	0.49								
AROCHLOR 1254	ND	0.49								
AROCHLOR 1260	ND	0.49	н							
QC SAMPLE: Calibration Blank (7106031-C	CB2)				Prepared:	09/04/07	Analyzed: 0	9/07/07		
AROCHLOR 1016	ND	0.49	mg/L							
AROCHLOR 1221	ND	0.49								
AROCHLOR 1232	ND	0.49								
AROCHLOR 1242	ND	0.49								
AROCHLOR 1248	ND	0.49	n n							
AROCHLOR 1254	ND	0.49	11							
AROCHLOR 1260	ND	0.49	н							
QC SAMPLE: Reference (7106031-SRM1)					Prepared:	09/04/07	Analyzed: 0	9/07/07		
AROCHLOR 1260	1.25	0.49	mg/L	2.00		62.5	50-150			
QC SAMPLE: Reference (7I06031-SRM2)					Prepared:	09/04/07	Analyzed: 0	9/07/07		
AROCHLOR 1260	1.89	0.49	mg/L	2.00	•	94.5	50-150			

This report may not be reproduced except in full.



ITY OF PORTLAND



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452	Dean Marriott, Director	Dan Saltzman,	Commissioner
DATCH DISCHADGE	DECLIEST ECOM		

Waste Generator Information

Permit Contact

Information

Source Name

Cascade General

Name

Charles Isted

5555 N. Channel Ave.

Address

Cascade General

Source Address

5555 N. Channel Ave

Portland, OR

97217

Company Name

Portland, OR 97217

Telephone Number

503/247-1959

60,000 gal

Facsimile Number

503/247-6050

Batch Information Batch Number:

CWTA

Email Address

cisted@vigorindustrial.net

Proposed Discharge

Volume:*

Volume:

Request Date/Time:

9/2/08 09:30 A.M.

Actual Discharge

Date Proposed:

9/2/2008

Sampling Location:

T-7, BWTP

Duration of Discharge:

Start: 9/3/2008

Stop: 9/7/2008

Sampled? YES

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-A

Discharge flow will be stopped if heavy rain develops. Flow will be held below gpm. Are the analysis sheets, QA/QC and chain of custody attached? (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting lalse information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE 1st FINAL COMPLIANCE REPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

August 2008

Date Entered
Entered By:

Dry Dock Treatment Plant (CWT - A)

SAMPLE DATE	POINT OF O	COMPLIANCE	$\mathbb{E} \mid SA$	MPLE TYPE	A Design of the Control of the Contr		
	CV	VT2A	C	COMPOSITE			
PARAMETER	RAMETER ANALYSIS REPORTED METHOD CONCENTRATION			MDL	LIN DAILY	COMMENTS	
Antimony	EPA 200.8	ND	mg/L	0.00100 mg/L	0.249 mg/L	0.206 mg/L	
Arsenic (Total)	EPA 200.8	0.00122	mg/L	0.00100 mg/L	0.162 mg/L	0.104 mg/L	
Cadmium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0,474 mg/L	0.0962 mg/L	
Chromium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	5.0 mg/L	3.07 mg/L	
Cobalt (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.192 mg/L	0.124 mg/L	
Copper (Total)	EPA 200.8	0.0605	mg/L	0.00500 mg/L	3.7 mg/L	1.06 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.7 mg/L	0.283 mg/L	
Mercury (Total)	EPA 245.1	ND	mg/L	0.00020 mg/L	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	1.4 mg/L	2.09 mg/L	
Nickel (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	2.8 mg/L	1.45 mg/L	
Selenium (Total)	EPA 200.8	0.00131	mg/L	0.00100 mg/L	0.6 mg/L	0.408 mg/L	
Silver (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.120 mg/L	0.0351 mg/L	
Tin (Total)	EPA 200.7	ND	mg/L	0.020 mg/L	0.409 mg/L	0.120 mg/L	
Titanium (Total)	EPA 200.7	ND	mg/L	0.010 mg/L	0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.218 mg/L	0.0662 mg/L	
Zinc (Total)	EPA 200.8	0.0485	mg/L	0.00500 mg/L	2.87 mg/L	0.641 mg/L	

SAMPLE DATE	SAMPLE DATE POINT OF COMPLIANCE			MPLE TYPE	8.5 g death (2.5 g		
	CV	VT2A		GRAB			
PARAMETER	ANALYSIS METHOD	This manufacture who are before a product	ORTED NTRATION	MDL	LI DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	16.0	mg/L	4.76 mg/L	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT	9.14	mg/L	4.76 mg/L	110 mg/L	N/A	Local Limit
Cyanide (Total)	EPA 335.4	ND	mg/L	0.0050 mg/L	1.2 mg/L	178 mg/L	
pН	EPA 150.1	10.3	SU		5.0 - 11.5	N/A	Local Limit

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in
accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted.
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the
information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that
there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing
violations.

Signature: Date: 9-2-08

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Friday, August 29, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'A' / 1-000-0002-100

Enclosed are the results of analyses for work order A808066, which was received by the laboratory between 8/7/2008 at 2:02:00PM and 8/22/2008 at 9:30:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewelf

Reported:

08/29/08 11:58

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION Sample ID Laboratory ID Matrix Date Sampled Date Received T-17-08-07-08 Sub Cat 'A' A808066-01 Water 08/07/08 13:00 08/07/08 14:02

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 08/29/08 11:58

	Purgeable Organic Compounds by EPA 624											
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes				
T-17-08-07-08 Sub Cat 'A' (A808	1066-01)		Matrix: W	ater ater	•		R-04					
Acrylonitrile	ND		0.0100	mg/L	10	08/12/08 15:01	EPA 624	······································				
Chlorobenzene	ND		0.00500	v	u	11	v					
Chlorofonn	ND		0.0200	r	п	It	n					
1,2-Dichloroethane (EDC)	ND		0.00500	A		H	R					
Trichloroethene (TCE)	ND		0.00500	11	n	n	n					
Surrogate: Dibromofluorometh	ane (Surr)	Red	overy: 99 %	Limits: 80-120 %	1	n	,,,,,					
1,4-Difluorobenzene	(Surr)		93 %	Limits: 80-120 %	"	D	10					
Toluene-d8 (Surr)			92 %	Limits: 80-120 %	n	IT .	v					
4-Bromofluorobenze	ene (Surr)		104 %	Limits: 80-120 %	n		•					

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave.

Project Number; 1-000-0002-100

Reported: 08/29/08 11:58

Portland, OR 97217

Project Manager: Lian Jewell

	Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)												
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes					
T-17-08-07-08 Sub Cat 'A' (A808	066-01)		Matrix: W	ater									
Bis(2-ethylhexyl)phthalate	ND		0.118	mg/L	100	08/27/08 19:19	EPA 625 SIM						
Carbazole	ND		0.0472	W		н	u						
2,4-Dinitrotoluene	ND		0.118	н	н	н	u						
Decane	ND		0.0472		11	n	n						
Fluoranthene	ND		0.118	и	u	U	,,						
Nitrobenzene	ФИ		0.00943	ø	17	e e	,,						
Octadecane	ND		0.0472	et e	n	п	19						
Surrogate: Nitrobenzene-d5 (Su	ırr) .	Reco	very: 132 %	Limits: 35-120 %	11	P	u	S-0.					
2-Fluorobiphenyl (S	urr)		93 %	Limits: 45-120 %	n	n	**						
n-Ternhenvl-d14 (Su	rr)		97%	Limits: 30-120 %		n	**						

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/29/08 11:58

		То	tal Metals by E	PA 200.8 (I	CPMS)			
Analyre	Result	MDL	Reporting MDL Limit Units		Dilution	Date Analyzed	Method	Note
-17-08-07-08 Sub Cat 'A'	(A808066-01)		Matrix: Water					
Antimony	ND		0.00100	mg/L	ı	08/14/08 12:44	EPA 200.8	
Arsenic	0.00122		0.00100	**	н	08/13/08 16:41	n	
Barium	ND		0.00100	н	н	n	n	
Cadmium	ND		0.00100	n	n	1)	n	
Chromium	ND		0.00100	TI	я	υ	. и	
Cobalt	ND		0.00200	n	п	ν	н	
Copper	0.0605		0.00500	11	п	v	я	
Lead	ND		0.00100	11	n	ħ	n	
Molybdenum	ND		0.00200	11	н	79	n	
Nickel	ND		0.00100	11	п	17	n	
Selenium	0.00131		0.00100	11	n	0	n	
ilver .	ND		0.00200	n	n	v	ij	
inc	0.0485		0.00500	n	ŋ	9	n	
anadium	ND		0.00200	v	n	11	н	

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/29/08 11:58

	Conventional Chemistry Parameters											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes				
T-17-08-07-08 Sub Cat 'A' (A808066	5-01)		Matrix: Wate	er								
HEM (Oil and Grease)	16.0		4.76	mg/L	1	08/14/08 10:50	EPA 1664					
SGT-HEM (Non-polar Material)	9.14		4.76	n	ıŢ	08/14/08 15:14	EPA 1664-SGT					
pН	10.3			pH Units	It	08/08/08 10:53	EPA 150.1					
pH Temperature	13.5			deg C	17	9	n					

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

		DR	AFT: Purge	able Or	ganic Con	pounds by	y EPA 624	1				
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080104 - EPA 5030B							Wat	er				
Blank (8080104-BLK1)						Analyzed:	08/12/08 10	:55				
EPA 624										-		
Acrylonitrile	ND		0.00100	mg/L	I							
Chlorobenzene	ND		0.000500	17	11							
Chloroform	ND		0.00200	**	41							
1,2-Dichloroethane (EDC)	ND		0.000500	0	0							
Trichloroethene (TCE)	ND		0.000500	er	4							
Surr: Dibromofluoromethane (Surr)		Rec	overy: 94%	Limits:	80-120 %	Dil	ution: 1x					
1,4-Difluorobenzene (Surr)			91%		80-120 %		"					
Toluene-d8 (Surr)			93 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			105 %		80-120 %		"					
LCS (8080104-BS1)						Analyzed:	08/12/08 09:	:55				
EPA 624												
Chlorobenzene	0.0198		0.000500	mg/L	1	0,0200		99	70-130%			
Chloroform	0.0174		0.00200	,	п	п		87	10			
1,2-Dichloroethane (EDC)	0.0186		0.000500	*		11		93	*			
Trichloroethene (TCE)	0.0186		0.000500	^	н	п		93	*			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 93 %	Limits:	80-120 %	Dil	ution: 1x					
1,4-Diffuorobenzene (Surr)			89 %		80-120 %		"					
Toluene-d8 (Surr)			93 %		80-120 %		n					
4-Bromofluorobenzene (Surr)			97%		80-120 %		".					

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080101 - EPA 3510C							Wat	ter				
Blank (8080101-BLKI)						Analyzed:	08/27/08 18	3:08				
EPA 625 SIM								*****				
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1							
Carbazole	ND		0.000500	n	D.							
2,4-Dinitrotoluene	ND		0.00125	13	0	****						B-0
Decane	ND		0.000500	**	n							
Fluoranthene	ND		0.00125	17	If				_			
Nitrobenzene	ND		0.000100	17	H							
Octadecane	ND		0.000500	ıı	u			'				
Surr: Nitrobenzene-d5 (Surr)	ur	Rec	overy: 91%	Limits:	35-120 %	Dili	ution: lx					
2-Fluorobiphenyl (Surr)			94 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			104 %		30-120 %		"					
LCS (8080101-BS1)						Analyzed: (08/27/08 18	3:31				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00633		0.00125	mg/L	1	0.00500		127	40-125%			Q-08
Carbazole	0.00539		0.000500	**	u ·	н		108	"			
2,4-Dinitrotoluene	0.00514		0.00125	ir.	11	U		103	n			
Decane	0.00393		0.000500	17	и	0		79	19			
Fluoranthene	0.00543		0.00125	n	lı .	11		109	55-120%			
Nitrobenzene	0.00497		0.000100	а	11	H		99	40-125%			
Octadecane	0.00546		0.000500	n	"	**		109	¥r			
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 90 %	Limits:	35-120 %	Dilı	ition: lx		·			
2-Fluorobiphenyl (Surr)			91%		45-120 %		n					
p-Terphenyl-d14 (Surr)			96 %		30-120 %		"					
LCS Dup (8080101-BSD1)						Analyzed: (8/27/08 18	:55				
EPA 625 SIM									J.,			
Bis(2-ethylhexyl)phthalate	0.00592		0.00125	mg/L	1	0.00500		118	40-125%	7	30%	
Carbazole	0.00502		0.000500	17	**			100	и	7	30%	
2,4-Dinitrotoluene	0.00485	_	0.00125	и	н	n		97	11	6	30%	
Decane	0.00417		0.000500	н	н	**		83	n	6	30%	
Fluoranthene	0.00499		0,00125	n	n	**		100	55-120%	9	30%	
·			0.000100	n	н	n		001	40-125%	0.3	30%	
Nitrobenzene	0.00498		0.000100					100	40-12370	0.5	3070	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080101 - EPA 3510	С						Wat	ter		_		
LCS Dup (8080101-BSD1)						Analyzed:	08/27/08 18	3:55				
Surr: 2-Fluorobiphenyl (Surr)		Reco	overy: 92 %	Limits:	45-120 %	Dil	ution: 1x					
p-Terphenyl-d14 (Surr) 93 % 30-120 % "												

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Reported: Project Manager: Lian Jewell 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch 8080121 - EPA 3015							Wa	ter				
Blank (8080121-BLK1)						Analyzed:	08/13/08 16	i:59				
EPA 200.8					.,							
Arsenic	ND		0.00100	mg/L	1							
Barium	ND		0.00100	tr.	**							
Cadmium	ND		0.00100	81	u							
Chromium	ND		0.00100	ы	ıı							
Cobalt	ND		0.00200	**	n							
Copper	ND		0.00500	н	и							
Lead	ND		0.00100	19	и							
Molybdenum	ND		0.00200	"	ø							
Nickel	ND		0.00100	U	11							
Selenium	ND		0.00100	u	v						_	
Silver	ND		0,00200	ıt	u							
Zinc	ND		0.00500	"	12							
Vanadium	ND		0.00200	**	H							
						Analyzed: (08/14/08 12	:11				
EPA 200.8												
Antimony	ND		0.00100	19	18							
LCS (8080121-BS1)						Analyzed: (08/13/08 17	:02				
EPA 200,8												
Arsenic	0.0549		0,00100	mg/L	1	0.0556		99	85-115%			
Barium	0.0577		0.00100	н	Bf	**		104	17			
Cadmium	0.0528		0.00100	и	н	tr.		95	п			
Chromium	0.0573		0.00100	11		n		103	и			
Cobalt	0.0576		0.00200	11	11	n		104	н			
Copper	0.0591		0.00500	и	19	n	·	106	n			
Lead	0.0550		0.00100	ij	**	n		99	n			
Molybdenum	0.0559		0.00200	II .	17	"		101	11			
Nickel	0.0576		0.00100	ır	11	"		104	n			
Selenium	0.0286		0.00100	H	17	0.0278		103	v			
Silver	0.0295		0.00200	М	ır	ŧŧ		106	v			
Zinc	0.0530		0.00500	n	м	0.0556		95	n			
Vanadium	0.0567		0.00200	н	м	н	***	102	"			
						Analyzed: (

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080121 - EPA 3015							Wat	er				
LCS (8080121-BS1)			· —			Analyzed:	: 08/14/08 12	:14	_			
EPA 200.8												
Antimony	0.0357		0.00100	mg/L	11	0.0278		128	e#			Q-08
Duplicate (8080121-DUP1)			Source: A	808066-01		Analyzed:	: 08/13/08 16	:44				
EPA 200,8								~				
Arsenic	0.00114	***	0.00100	mg/L	1		0.00122			7	20%	
Barium	ND		0.00100	11	19	***	ND				20%	
Cadmium	ND		0.00100	rı	10		ND				20%	
Chromium	ND		0.00100	n	11		ND				20%	
Cobalt	ND		0.00200	11	**		ND				20%	
Copper	0.0593		0.00500	11	1)		0.0605			2	20%	
Lead	ND		0.00100	u	19		ND				20%	
Molybdenum	ND		0.00200	e	v		ND				20%	
Nickel	ND		0.00100	n	v		ND	4			20%	
Selenium	ND		0.00100	p	17		ND				20%	Q-05
Silver	ND		0.00200		11		ND				20%	•
Zinc	0.0481		0.00500	n	п		0.0485		****	0.9	20%	
Vanadium	ND		0.00200		-		ND	****			20%	
EPA 200.8						Analyzed:	08/14/08 12	:48				
Antimony	ND		0.00100	ıı	11		ND				20%	
Matrix Spike (8080121-MS1)			Source: A	808066 <u>-</u> 01		Analyzede	08/13/08 16:	·50				
EPA 200.8			- Courte. A			Auniy ECU.	VOI (5) VOI 10					
Arsenic	0.0526		0.00100	mg/L	1	0.0556	0.00122	93	70-130%			
Barium	0.0565		0.00100	u Br	и	U.0530	0.000600	101	70-13070 11			
Cadmium	0.0505		0.00100	н	n	в	ND	92	n			
Chronium	0.0511		0.00100	n	n		0.000411	99	12			
Cobalt	0.0550		0.00200	v	71	n	ND	99	17			
Copper	0.0330		0.00200	n	11	n	0.0605	99	**			
Lead	0.0551		00100.0	17	9		0.0005	98	4			
Molybdenum	0.0563		0.00100		11	,,	0.000369	98				
Nickel	0.0563			и	**	U	0.00198	101				
Selenium	0.0370		0.00100	H		0.0278	0.000736	96	n			
Silver		***	0.00100	"	17	U.U.2.78	0.00131 ND	90 101	,,			
Silvei	0.0282		0.00200	**		•	ND	101				

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil,	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080121 - EPA 3015						_	Wat	er				
Matrix Spike (8080121-MS1)			Source: A	808066-01		Analyzed:	08/13/08 16:	:50				
Zinc	0.0966		0.00500	mg/L	n	0.0556	0.0485	87	N			
Vanadium	0.0545		0.00200	•	Ħ	11	0.000244	98	ų			
						Analyzed:	08/14/08 12:	:51				
EPA 200.8												
Antimony	0.0257		00100.0	77	n	0.0278	ND	93	ъ			

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080087 - Method F	rep: Aq						Wat	ter				
Duplicate (8080087-DUP1)			Source: A	808066-01		Analyzed: (08/08/08 10):54				
EPA 150.1												
рH	10.3			pH Units	1		10.3			0.194	10%	
pH Temperature	13.5			r	17		13.5			0.00	200%	
Reference (8080087-SRMI)						Analyzed: (08/08/08 10	:51				
EPA 150.1												
pН	6.01			pH Units	1	6.00		100 3.3	33-101.666	5 <u>°</u>		
Reference (8080087-SRM2)						Analyzed: (08/08/08 10	:58				
EPA 150.1						<u></u>						-
pН	7.94			pH Units	. 1	8.00		99.2 ₹8.1	75-101,259	4		

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: I-000-0002-100 Project Manager: Lian Jewell Reported: 08/29/08 11:58

QUALITY CONTROL (QC) SAMPLE RESULTS

			DRAFT: C	onvention	al Chem	istry Paran	neters					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8080129 - EPA 1664							Wa	ter		· • ·		
Blank (8080129-BLK1)						Analyzed:	08/14/08 10	0:50				
EPA 1664										-		
HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8080129-BLK2)						Analyzed: (08/14/08 1:	5:14				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	ND		5,00	mg/L	1	*****						
LCS (8080129-BS1)						Analyzed: (08/14/08 10):50				
EPA 1664												
HEM (Oil and Greuse)	37.7			mg/L	I	40.0		94	78-114%			
LCS (8080129-BS2)						Analyzed: (08/14/08 15	5:14				
EPA 1664-SGT								_				
SGT-HEM (Non-polar Material)	16.3			mg/L	1	20.0		82	64-132%			
Matrix Spike (8080129-MS1)			Source: A	808066-01		Analyzed: (08/14/08 10):50				
EPA 1664						***************************************						
HEM (Oil and Grease)	11.6			mg/L	1	37.7	16.0	-12	78-114%			A-01, Q-01
Matrix Spike (8080129-MS2)			Source: A	808066-01		Analyzed: (08/14/08 15	5:14				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	6.29			. mg/L	1	18.9	9.14	-15	64-132%			Q-01
Matrix Spike Dup (8080129-MSD1)			Source: A	808066-01		Analyzed: 0	8/14/08 10	:50				
EPA 1664												
HEM (Oil and Grease)	13.8			mg/L	1	37.7	16.0	-6	78-114%	-67	18%	A-01, Q-01
Matrix Spike Dup (8080129-MSD2)			Source: A	808066-01		Analyzed: 0	8/14/08 15	5:14				
EPA 1664-SGT							<u> </u>					
SGT-HEM (Non-polar Material)	6,89			mg/L	1	18.9	9.14	-12	64-132%	-24	34%	Q-01

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: I-000-0002-100 Project Manager: Lian Jewell

Reported: 08/29/08 11:58

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Co	mpounds by EPA 624	<u> </u>		
Prep; EPA 5030B	1. T				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A 808066-01	Water	EPA 624	08/07/08 13:00	08/12/08 09:43	5mL/5mL	5mL/5mL	1.00
		Semivolatile Or	ganic Compounds b	y EPA 625 Modified (S	SIM Analysis)		
Prep: EPA 3510C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080101 A808066-01	Water	EPA 625 SIM	08/07/08 13:00	08/11/08 14:56	1060mL/5mL	1000mL/5mL	0.94
			Total Metals by EF	PA 200.8 (ICPMS)			
Prep: EPA 3015					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080121 A808066-01	Water	EPA 200.8	08/07/08 13:00	08/12/08 14:29	45mL/50mL	45mL/50mL	1.00
			Conventional Chen	nistry Parameters			
Prep: EPA 1664					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080129							
A808066-01	Water	EPA 1664	08/07/08 13:00	08/13/08 09:59	IN/A/IN/A	IN/A/ImL	NA
A808066-01	Water	EPA 1664-SGT	08/07/08 13:00	08/13/08 09:59	1N/A/1N/A	1N/A/1mL	NA
Prep: Method Prep	: Ag				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8080087 A808066-01	Water	EPA 150.1	08/07/08 13:00	08/08/08 10:35	20mL/20mL	20mL/20mL	NA

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/29/08 11:58

Notes and Definitions

Qualifiers:

A-01 Low spike recovery may be due to matrix effect

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

Q-01 The percent recovery and/or RPD was outside acceptance limits for this spiked sample. The batch was accepted based on LCS recovery.

Q-05 Analyses are not controlled on RPD values from sample or duplicate concentrations near or below the reporting level.

Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not

detected in reported client samples. Data quality is not affected.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-05 Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix

interference.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

QC

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy

and precision of the extraction and analysis.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

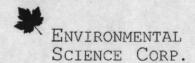
VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell Reported:

08/29/08 11:58

3	2-100			91358 493 1918 33614	入さ					700			•	-			
1608046	CO1-COCO-COCO-		SANGEST STATE	49 1001 HE	X			-							NECKATURA BYA Signatura	Specie	
0000	10-1		TAXABLE SAN	250 625 St. EPA 625 St.	デン	7									Signer	Madding	(Certais)
	Z			TCL! Alicate (B) 1201: Alicate (B) 1201: Alicate (B) 1201: Catcal Color 200: Catcal C	×											12	
	The King Style Co.	7071 706		PICSA Metate (15) Priority Metate (15) M. St. Actus. Re. Per M. St. Co. Co. St. Per M. St. Co. Co. Co. St. Per M. St. Co. Co. St. Per M. St. Co. Co. Co. Co. St. Per M. St. Co. Co. Co. St. Per M. St. Co. Co. Co. St. Per M. St. Co. Co. Co. Co. St. Per M. St. Co. Co. Co. St. Per M.							 	Ž.			ž	Tier	
TODY	J. Contraction	1 mm		6370 SIME PARIA FOREZ PCBs FOREI CASOL. Pres								 SPECIAL INSTRUCTIONS:			attinguision one Signacci	nk.	
CHAIN OF CUSTODY	1	1503 W-11.34	Market Market	EM AGC EM HUB AGC EM HBREY AGC RLEX			<u> </u>					 SPECIA			Signature Signature	Presed Marke	Caipe
CHAIN		1		MALLEGY MALLEGY MALLEGY MALLEGY								lny			1825.	an derien	X
19-2323 Fee: 5	Mer	000	722	XATRIX % OF CONTAINESS	るがなが	_			-700-			. J. 10 Basiness I	other:	NO BANNS	NECESPEED BY:	12 V	Sensitive Committee Commit
223 PM 503-7	Project Mer	1 .	a c	STAG EMIT	5000				·•			nd Year (TAT)	All (3)	SAMPLES AILENBLID FOR 30 BAYS	30-20-80	1402	
APEX LABS CHAIN 1733 S.W. Garder Places Trigeriet Off 97233 Per 503-718-3333 Par: 503-718-3333 Par:	C. 12.12	ALINES 5555 N. Change Alin	Lang comes in	‡01 971	<i>®</i>	Ź						Minnal Tuni Areand Time (TAT) = 3-10 (Business (Ap.)	24 FIR relay 4 BAY	SAMPLESAL	In Indianal C		Trans.
APEX LABS	Sandy and General	555 11.	11.1.0	กลาสหาร	-10-08-01-	ر ن						6	TAT Requested (elrela)		- ~ 3	Amermer) श
APEN insish.	Cababr	Anthras	Cumm), I fee		T-19-C	J. 22							TAT		HELT-OFHISHED BY	Mykedown M. K.	Garpery.



Tax I.D. 62-0814289

Est. 1970

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223

Report Summary

Friday August 29, 2008

Report Number: L359084 Samples Received: 08/08/08 Client Project: A808066

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesifate to call. Jarred Willis Representative

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2277, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, AC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WY - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

2 Samples Reported: 08/18/08 10:52 Revised: 08/29/08 10:29

Page 1 of 8



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

August 29, 2008

Date Received

August

08, 2008

ESC Sample # : L359084-01

Description

Site ID :

Sample ID

T-7-07-16 SUB CAT

Project # : A808066

Collected By : Collection Date :

08/07/08 13:00

Det. Limit Dil. Parameter Result Units Method Date 0.0050 335.4 08/13/08 Cyanide 1 BDL mg/l0.088 mg/l 4500-S2 D Sulfide 0.050 08/12/08 1 Mercury BDL 0.00020 mg/1245.1 08/16/08 1 0.020 08/12/08 \mathtt{BDL} mg/1200.7 Tin Titanium BDL 0.010 mg/1200.7 08/12/08 1 Pesticide/PCBs Chlordane
Pest/PCBs Surrogates
Decachlorobiphenyl
Tetrachloro-m-xylene 0.030 08/15/08 100 BDL mg/l 608 35.0 55.0 % Rec. 608 08/13/08 10 08/13/08 % Rec. 608 10

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

. Reported: 08/18/08 10:52 Revised: 08/29/08 10:29 L359084-01 (PESTICIDES/PCBS) - Dilution due to matrix



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

August 29, 2008

August

08, 2008

ESC Sample # : L359084-02

Date Received Description

Site ID :

Sample ID

T-7-07-16 SUB CAT

Project # : A808066

Collected By : Collection Date :

08/07/08 13:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
8270 SIM Pentachlorophenol	BDL	0.0040	mg/l	8270C	08/11/08	1
Surrogate Recovery 2,4,6-Tribromophenol	95.6		% Rec.	82 7 0C	08/11/08	1.

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 08/18/08 10:52 Revised: 08/29/08 10:29

Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L359084-01	Cyanide Chlordane Tin	J6 O B3

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
в3	(ESC) - The indicated compound was found in the associated method blank, but all reported samples were non-detect.
.J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

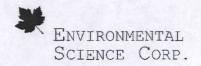
 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 08/29/08 at 10:29:40

TSR Signing Reports: 358 R5 - Desired TAT

Always log metals by 6010; Log A# as project number; Always log dry weight for soils Use APEXBOR-NERENBERG or APEXBOR-DARWIN Always log CN water samples under method 335.4 as drinking water.

Sample: L359084-01 Account: APEXBOR Received: 08/08/08 09:00 Due Date: 08/14/08 00:00 RPT Date: 08/18/08 10:52 Added TIICP per JW email. MS 8/11 Sample: L359084-02 Account: APEXBOR Received: 08/08/08 09:00 Due Date: 08/12/08 00:00 RPT Date: 08/18/08 10:52 SV8270PCP = PCP only



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

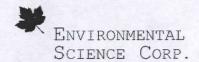
Tigard, OR 97223

Quality Assurance Report Level II

L359084

August 29, 2008

	13330	101		
Analyte	Labora Result	tory Blank Units Date Ana	lyzed	Batch
Pentachlorophenol		ppm 08/11/08	11:23	WG376732
Sulfide	< .05	mg/l 08/12/08	11:56	WG376832
Chlordane	< .005	mg/l 08/12/08	17:52	WG376885
Cyanide	< 1005	mg/l 08/13/08	08:38	WG377039
Tin Titanium	0.0341 <01	mg/l 08/12/08 mg/l 08/12/08		WG377116 WG377116
Mercury	< .0002	mg/l 08/16/08	19:24	WG377134
Analyte	Units Result	licate Duplicate RPD	Limit	Ref Samp Batch
Sulfide discussion and a supplied to the supplied of the suppl	mg/L 0.00	0.00	20	L358624-01 WG376832
Cyanide Cyanide	mg/l 0.00 mg/l 0.0109	0.00 0.00 0.0160 37.9	20 20	L358886-02 WG377039 L358567-02 WG377039
Tin Titanium	mg/l 0.0457 mg/L 0.00		20 [4][20][4][4][4]	L358808-02 WG377116 L358808-02 WG377116
Mercury	mg/1 0.00	0.00 0.00	20	L358725-01 WG377134
Analyte	Laboratory Units Known	Control Sample Val Result	% Rec	Limit Batch
Pentachiorophenol	ppm01	0.00465	46.5	20-122 WG376732
Sulfide	mg/l .5	0.502	100.	90-110 WG376832
Cyanide	mg/l .1	0.103	103.	90-110 WG377039
Tin Titanium	$\begin{array}{ccc} & \text{mg/l} & 1 \\ & \text{mg/l} & 1 \end{array}$	1.03 0.964	103. 96.4	85-115 WG377116 85-115 WG377116
Mercury	mg/1 .003	0.00294	98.0	85-115 WG377134
Analyte	Laboratory Contr Units LCSD Res	ol Sample Duplicat Ref Res RPD	e Limit %Red	Batch Batch
Pentachlorophenol	ppm 0.0041	0.0046 10.6	50 42	WG376732
Sulfide	mg/l 0.506	0.502 0.794	20 101	WG376832
Cyanide	mg/l 0.102	0.103 0.976	20 102	WG377039
Analyte	Units MS Res	ix Spike Ref Res TV %	Rec Limit	Ref Samp Batch
Sulfide	mg/l 0.966	0.00	96.6 90-110	L358906-01 WG376832
Cyanide	mg/l 0.109	0.00 .2	54.5 90-110	L359084-01 WG377039
Tin Titanium	mg/l 1.06 mg/l 0.978		01. 75-125 97.5 75-125	
Mercury	mg/1 0.0025	0.00 .003	85.0 70-130	L358725-01 WG377134



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L359084

August 29, 2008

Analyte	Units	Matrix Sp MSD Res	ike Duplic Ref Res	ate RPD	Limit	%Rec	Ref Samp	Batch
Sulfide	mg/1	0.968	0.966	0.207	20	96.8	L358906-01	WG376832
Cyanide								
Tin Titanium	mg/l mg/l	1.07 0.978	1.06 0.978	0.939 0.00	20 20	102. 97.5	L358808-02 L358808-02	WG377116 WG377116
Mercury							L358725~01	

Batch number /Run number / Sample number cross reference

WG376732: R443804: L359084-02 WG376832: R444004: L359084-01 WG376885: R444089: L359084-01 WG377039: R445985: L359084-01 WG377116: R446887: L359084-01 WG377134: R448583: L359084-01

^{* *} Calculations are performed prior to rounding of reported values $\ .$



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L359084

August 29, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

1359084

SUBCONTRACT ORDER

Apex Laboratories A808066

SENDING LABORATORY:

Apex Laboratories

12232 S.W. Garden Place

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager:

Darwin Thomas

RECEIVING LABORATORY:

ESC

12065 Lebanon Road

Mt. Juliet, TN 37122

Phone:(800) 767-5859

Fax: (615) 758-5859

Caution: ODOR

Sample Name: T-7-07-16 Sub Cat 'B' Water 08/07/08 13:00 (A808066-01) Sampled: Due Analysis Expires Comments 08/14/08 17:00 245.1 Hg (Mercury) - Total (H2O) 09/04/08 13:00 ESC limit 0.1 mg/L 608 PCBs 08/14/08 17:00 08/14/08 13:00 ESC Chlordane only, limit 0.03 mg/Liter 8-11-08/14/08 17:00 8270 SIM PCP 08/14/08 13:00 PCP limits .04mg/L -01/02 08/14/08 17:00 ESC limits 1,2 mg/L Cyanide, Total 08/21/08 13:00 08/14/08 17:00 02/03/09 13:00 ESC limts 0.146 mg/L Sn (Tin) - 200.7 - Total 08/14/08 17:00 08/14/08 13:00 ESC 4.0 mg/L Sulfide (376.2) Containers Supplied: (A)I L Amber Glass - Non Preserved (B)1 L Amber Glass - Non Preserved (C)1 L Amber Glass - Non Preserved (E)500 mL Poly - NaOH (F)250 mL Poly - NaOH/Zinc Acetate (N)250 mL Poly - Nitric (HNO3)

Plase add Zn Acetate to (F)

Add ave gift except pcp in also lab-iv

| Received by tab gard back | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | plants | pla

Released By

Date

Received By

Date

139084

Jeremy Gupton

From:

Jarred Willis

Sent:

Thursday, August 07, 2008 3:53 PM

To:

Login; Extractions; SemiVolatiles

Subject: 2 GW samples arriving tomorrow from *APEXBOR* for SV8270PCP - log as R3 due Tuesday,

8/12

We will be receiving 2 GW samples tomorrow, 8/8 form *APEXBOR* for SV8270PCP. Samples will need PCP only. Please log as R3 rush due Tuesday, 8/12.

Thanks, Jarred Willis

Environmental Science Corp.
Phone: 800-767-5859 Ext. 186
E-mail: jwillis@envsci.com

Susan Peach

From:

Matt Shacklock

Sent:

Monday, August 11, 2008 3:51 PM

To:

Jarred Willis; Login; Metals Jim Burns; Reporting

Cc: Subject:

RE: Add TIICP to L359084-01 for *APEXBOR*

Done.

Reporting please scan email behind original email.

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

From:

Jarred Willis

Sent:

Monday, August 11, 2008 2:55 PM

To:

Login; Metals

Cc: Subject: Jim Burns Add TIICP to L359084-01 for *APEXBOR*

Please add TIICP to L359084-01 for *APEXBOR*. I have attached the updated COC. Please scan it behind the original.

<< File: A808066 SCO 08 08 08 0928 A808066revised.PDF >>

Thanks, Jarred Willis

Environmental Science Corp. Phone: 800-767-5859 Ext. 186 E-mail: jwillis@envsci.com





Water Pollution Control Laboratory

6543 North Burlington Avenue,	Portland, Oregon 9	97203-5452	Dean Marriott, Director	Dan Saltzman,	Commissioner

BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact

Information

Source Name

Cascade General

Name

Charles Isted

Address

Cascade General

Source Address

5555 N. Channel Ave.

5555 N. Channel Ave

Portland, OR

97217

Portland, OR 97217

Telephone Number

503/247-1959

Facsimile Number

503/247-6050

Email Address

cisted@casgen.com

Batch Number:

Batch Information

CWTB

Proposed Discharge

550,000 gal

Volume:*

Request Date/Time:

8/13/2008 0800

Actual Discharge Volume:

Date Proposed:

8/13/08

Sampling Location:

Tank-7, BWTP

Duration of Discharge:

Start: 8/13/08 1200

Stop: 8/16 /08

Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-B

Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

1-13-08

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Phone: 503-823-5600 TDD: 503-823-3520 www.cleanrivers-pdx.org An Equal Opportunity Employer Printed on recycled paper.

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

July 2008

Ballast Water Treatment Plant Effluent - (CWT - B)

For Industrial Source Control Division Use C					
Date Postmarked/Received	Date Entered				
Comments:	Entered By:				

SAMPLE DATE	POINT OF	CWT2B REPORTED		AMPLE TYPE	2 m m m m m m m m m m m m m m m m m m m		
07/16/08	C			GRAB			
PARAMETER	ANALYSIS METHOD					LIMITS DAILY MONTHLY	
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT	ND	mg/L	5.43 mg/L	110 mg/L	N/A:	Local Lim
pH	EPA 150.1	7.19	pH Units		5.0 - 11.5	N/A	Local Lim
Bis-2-ethyhexylphthalate	EPA 625 SIM	ND	mg/L	0.0300 mg/L	0.267 mg/L	0.158 mg/L	The state of the s
Carbazole	EPA 625 SIM	0.00361	mg/L	0.00240 mg/L	0.392 mg/L	0.233 mg/L	And the second of the second o
Fluoranthane	EPA 625 SIM	ND	mg/L	0.00240 mg/L	0.787 mg/L	0.393 mg/L	Design of the control
n-Decane	EPA 625 SIM	ND	mg/L	0.0120 mg/L	5.79 mg/L	3.31 mg/L	Acceptance of the control of the con
n-Octadecane	EPA 625 SIM	ND	mg/L	0.0120 mg/L	1.22 mg/L	0.925 mg/L	
Pentachlorophenol (PCP)	EPA 8270C SIM	BDL	mg/L	0.0040 mg/L	0.04 mg/L	N/A	Local Lim

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

SAMPLE DATE	POINT OF COMPLIANCE CWT2B		E S	AMPLE TYPE	And I was a second of the seco		
				COMPOSITE			
PARAMETER	ANALYSIS METHOD		ORTED TRATION	MDL	EI DAILY	MITS MONTHLY	(0)
Antimony	EPA 200.8	ND	mg/L	0.00480 mg/L	0.237 mg/L	0.141 mg/L	
Barlum (Total)	EPA 200.8	0.0174	mg/L	0.00480 mg/L	0.427 mg/L	0.281 mg/L	
Chromium (Total)	EPA 200.8	0.00955	mg/L	0.00480 mg/L	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	0.0132	mg/L	0.00960 mg/L	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	ND	mg/L	0.0240 mg/L	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00480 mg/L	0.222 mg/L	0.172 mg/L	

Molybdenum (Total)	EPA 200.8	0.0565	mg/L	0.00960 mg/L	1.4 mg/L 2.09 mg/L
Tin (Total)	EPA 200.7	ND	mg/L	0.028 mg/L	0.249 mg/L 0.146 mg/L
Zinc (Total)	EPA 200.8	ND	mg/L	0.0240 mg/L	3.7 mg/L 4.46 mg/L

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my mowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date:

8-13-08

All self-monitoring reports (SMR) must include the following to be considered complete. For more detailed information regarding these items, please refer to the colored reference sheet. If you have any questions, please contact your permit manager for assistance.

Self Monitoring Report Check List:

- ρ Chain of Custody form
- ρ Analytical Results with Method Detection Limits (MDL)
- ρ QA/QC Results
- ρ Signed Signatory Certification Statement (Printed on bottom of SMR)
- ρ Completed Self Monitoring Report form

To assure prompt delivery, mail all monitoring results to:

Industrial Source Control Division Water Pollution Control Laboratory 6543 N. Burlington Avenue Portland, OR 97203-5452

Attn: Biola Cruse

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Friday, August 1, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for work order <u>A807118</u>, which was received by the laboratory on 7/16/2008 at 1:17:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/01/08 06:47

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-7-07-16 Sub Cat 'B'	A807118-01	Water	07/16/08 09:00	07/16/08 13:17

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

ANALYTICAL SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624												
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes				
T-7-07-16 Sub Cat 'B' (A807118-	-01)		Matrix: W	ater				R-04				
Acrylonitrile	ND ·		0.0200	mg/L	20	07/17/08 21:17	EPA 624	*****				
Chlorobenzene	ND		0.0100	н	н	D	M					
Chloroform	ND		0.0400	n	ž\$	u	n					
1,2-Dichloroethane (EDC)	ND		0.0100	¥	U	et .	77					
Trichloroethene (TCE)	ND		0.0100	n	st	н	er					
Surrogate: Dibromofluorometh	ane (Surr)	Reco	very: 100 %	Limits: 80-120 %	• 1	н	19					
1,4-Difluorobenzene	(Surr)		99 %	Limits: 80-120 %	н	u	tr					
Toluene-d8 (Surr)			96 %	Limits: 80-120 %	μ	tř	п					
4-Bromofluorobenze	ene (Surr)		103 %	Limits: 80-120 %	11	9	tt					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

ANALYTICAL SAMPLE RESULTS

	Semivolatil	e Organic	Compoun	ids by EPA 625 N	lodified (S	SIM Analysis)		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
r-7-07-16 Sub Cat 'B' (A807118	-01)		Matrix: W	later		•		
Bis(2-ethylhexyl)phthalate	ND		0.0300	mg/L	25	07/23/08 11:22	EPA 625 SIM	
Carbazole	0.00361		0.00240	u	tř.	r	u ·	
2,4-Dinitrotoluene ·	ND		0.00481	n	н	и	Ħ	R-0
Decane	ND		0.0120	44		н	n	
Fluoranthene	ND		0.00240	н .	н	н	H	
Nitrobenzene	ND		0.00240	n	a	π	n.	
Octadecane	ND		0.0120	19	11	11	и	
Pentachlorophenol (PCP)	0.0415		0.0300	¥	n	Ŋ	n	
Surrogate: Nitrobenzene-d5 (Si	urr)	Rec	overy: 76 %	Limits: 35-120 %	ti	št.	"	
2,4-Dibromophenol	(Surr)		256 %	Limits: 30-125 %	r	ur .	"	S-0.
2-Fluorobiphenyl (S	Surr)		55 %	Limits: 45-120 %	n	II.	D	
p-Terphenyl-d14 (Si	irr)		65 %	Limits: 30-120 %	н	II .	17	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/01/08 06:47

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-7-07-16 Sub Cat 'B' (A807118-0	01)		Matrix: Water				4						
Antimony	ND		0.00480	mg/L	5	07/22/08 12:22	EPA 200.8	R-C					
Arsenic	0.00843		0.00480		71	**	u						
Barium	0.0174		0.00480	n	11	tr	te						
Cadmium	ND		0.00480	u	•	Ħ	п	R-0					
Chromium	0.00955		0.00480	17	It	N	н						
Cobalt	0.0132		0.00960	ų		*	×						
Copper	ND		0.0240	n	п	n	н	R-0					
Lead	ND		0.00480		n	n	n	R-0					
Molybdenum	0.0565		0.00960		1)	n	, т						
Nickel	0.113		0.00480	"	tř	v	•						
Sclenium	0.0122		0.00480	19	v		**						
Silver	ND		0.00960	v	tr.	n	et .	R-0					
Zinc	ND		0.0240	u.	17	п	17	R-0					

Apex Laboratories

custody docu

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Reported: 08/01/08 06:47 Project Manager: Lian Jewell

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-7-07-16 Sub Cat 'B' (A807118-01)		Matrix: Wate	er									
HEM (Oil and Grease)	7.93	***	5.43	mg/L	1	07/23/08 10:06	EPA 1664						
SGT-HEM (Non-polar Material)	ND		5.43	υ	n	07/25/08 08:54	EPA 1664-SGT						
pH	7.19			pH Units	Ħ	07/16/08 16:22	EPA 150.1						
pH Temperature	23.2	***		deg C	п	**	"						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	Compou	nds by EP.	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%RE	%REC C Limits	RPD	RPD Limit	Notes
Batch 8070138 - EPA 5030B							Wat	er				····
Blank (8070138-BLK1)						Analyzed: (07/17/08 15	:41				
EPA 624							2.7.1					
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	**	n							
Chloroform	ND		0.00200		Ð							
1,2-Dichloroethane (EDC)	ND		0.000500	P	ч							
Trichloroethene (TCE)	ND		0.000500	1)	17							
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Surr)			103 %		80-120 %		"					
Toluene-d8 (Surr)			97%		80-120 %		"					
4-Bromofluorobenzene (Surr)			104 %		80-120 %		"					
LCS (8070138-BS1)						Analyzed: (07/17/08 14	:40		-		
EPA 624												
Chlorobenzene	0.0181		0.000500	mg/L	1	0.0200		90	70-130%			
Chloroform	0.0200		0.00200	19	ij	"		100	"			
1,2-Dichloroethane (EDC)	0.0177		0.000500	**	н	H		88	*			
Trichloroethene (TCE)	0.0193		0.000500	**	11	D		97	Þ			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 96 %	Limits:	80-120 %	Dih	ution: Ix	-				
1,4-Difluorobenzene (Surr)			99 %		80-120 %		"					
Toluene-d8 (Surr)			95 %		80-120 %		17					
4-Bromofluorobenzene (Surr)			98 %		80-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell Reported: 08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

			D			C - 31	C		0/DEC		nnn	
Analyte	Result	MDL	Reporting Limit	Units	Dil,	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8070150 - EPA 3510C							Wat	ter				
Blank (8070150-BLK1)						Analyzed:	07/23/08 10):11				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1							
Carbazole	ND		0.000100		п							
2,4-Dinitrotoluene	ND		0.000100	p	ŋ							
Decane-	ND		0.000500	17	п							
Fluoranthene	ND		0.000100	17	10							
Nitrobenzene	ND		0.000100	H	Ħ							
Octadecane	ND		0.000500	и	71							
Pentachlorophenol (PCP)	ND	***	0.00125	"	17							
Surr: Nitrobenzene-d5 (Surr)		Red	covery: 89 %	Limits:	35-120 %	Dili	ution: Ix					***************************************
2,4-Dibromophenol (Surr)			88 %	2	30-125 %		#					
2-Fluorobiphenyl (Surr)			91%		45-120 %		"					
p-Terphenyl-d14 (Surr)			93 %		30-120 %		"					
LCS (8070150-BS1)						Analyzed: (07/23/08 10	:35				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00333		0.00125	mg/L	1	0.00500		67	40-125%			
Carbazole	0.00490		0.000100	11	н	н		98	D			
2,4-Dinitrotoluene	0.00487		0.000100	11		p		97	*			
Decane	0.00381		0.000500	n	P	n		76	n			
Fluoranthene	0.00481		0.000100	19	η	,,		96	55-120%			
Nitrobenzene	0.00509		0.000100	Ţi	19	u		102	40-125%			
Octadecane	0.00452		0.000500	37	IP.	п		90	ų			
Pentachlorophenol (PCP)	0.00466		0.00125	t?	п	п		93	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 90 %	Limits:	35-120 %	Dilı	ution: 1x					
2,4-Dibromophenol (Surr)			88 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			90 %		45-120 %		tr					
p-Terphenyl-d14 (Surr)			92 %		30-120 %		"					
LCS Dup (8070150-BSD1)						Analyzed: (07/23/08 10	:58				Q-1:
PA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00528		0.00125	mg/L	1	0.00500		106	40-125%	45	30%	Q-24
Carbazole	0.00509		0.000100	*	P	n		102	н	4	30%	
2,4-Dinitrotoluene	0.00497		0.000100	n	11	"		99	н	2	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 8 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	Organic Co	ompoun	ds by EPA	4 625 Modi	fied (SIM	Analysis	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits		RPD Limit	Notes
Batch 8070150 - EPA 3510C							Wat	ter				
LCS Dup (8070150-BSD1)			•		*	Analyzed:	07/23/08 10	:58				Q-1
Fluoranthene	0.00495	***	0.000100	mg/L	19	n		99	55-120%	3	30%	
Nitrobenzene	0.00508		0.000100	n	10	н		102	40-125%	0.2	30%	
Octadecane	0.00532		0.000500	D	t!	. "		106	**	16	30%	
Pentachlorophenol (PCP)	0.00481		0.00125	to.	11	1)		96	40-120%	3	30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 90 %	Limits:	35-120 %	Dil	ution: 1x					
2,4-Dibromophenol (Surr)			89 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			90 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			92 %		30-120 %		"					

Apex Laboratories

Day ()

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	5)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8070173 - EPA 3015							Wat	ter				<u> </u>
Blank (8070173-BLK1)						Analyzed:	07/22/08 10):44				
EPA 200.8									mbalant to more examine.			
Antimony	ND		0.000960	mg/L	1							B-02
Arsenic	ND		0.000960		9							
. Barium	ND		0.000960	"	b.							
Cadmium	ND		0.000960	17	n							
Chromium	ND		0.000960	17	*							
Cobalt	ND		0.00192	*	*							
Copper	ND		0.00480	n	n							
Lead	ND		0.000960	N	TP							
Molybdenum	ND		0.00192	n	•							
Nickel	ND		0.000960	11	ır	****			-			
Selenium	ND	****	0.000960	18	IT							
Silver	ND		0.00192	r:	и							
Zinc	ND		0.00480	**	я							
LCS (8070173-BS1)						Analyzed: (07/22/08 10	:51				
EPA 200,8					*********							
Antimony	0.0282		0.000960	mg/L	1	0.0278		102	85-115%			
Arsenic	0.0536		0.000960	' u	n	0.0556		96	п			
Barium	0.0549		0.000960	III		u		99	u			
Cadmium	0.0532		0.000960	п	n	n		96	**			
Chromium	0.0559		0.000960	n	11	n		101	u			
Cobalt	0.0550		0.00192	н	19	4		99	Ħ.			
Copper	0.0545		0.00480	1)		n		98	н			
Lead	0.0542		0,000960	**	n	n		97	н			
Molybdenum	0.0560		0.00192	IT	и	v		101	n			,
Nickel	0.0550		0.000960	n	n	11		99	11			
Selenium	0.0261		0.000960	и	п	0.0278		94	**			
Silver	0.0277		0.00192	н	n	н		100	tr			
Zine	0.0525		0.00480	11	n	0.0556		94	17			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 10 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	entional Ch	emistr	/ Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8070133 - Method P	rep: Aq						Wa	ter				
Duplicate (8070133-DUP1)			Source: A	A807118-01		Analyzed:	07/16/08 16	5:24				
EPA 150.1												
pН	7.21			pH Units]		7.19			0.278	10%	
pH Temperature	23.3			b	n		23.2			0.430	.200%	
Reference (8070133-SRM1)						Analyzed:	07/16/08 12	2:28				
EPA 150.1												
pН	6.09			pH Units	i	6.00	,	102 3.33	33-101.666	Č		
Reference (8070133-SRM2)						Analyzed: (07/16/08 12	2:30				
EPA 150.1			y-1									
pН	7.95			pH Units	ł	8.00		99.4 98.7	5-101.25%	ί		
Reference (8070133-SRM3)						Analyzed: (07/16/08 16	5:18				
EPA 150.1												
рH	6.05			pH Units	1	6.00		101 3,33	3-101,666	· .		
Reference (8070133-SRM4)						Analyzed: (07/16/08 16	5:25				
EPA 150.1						· · · · · · · · · · · · · · · · · · ·						
рН	7.97			pH Units	1	8.00		99.6 78.7	5-101.25%	ŧ		
Reference (8070133-SRM5)						Analyzed: (07/16/08 18	:01				
EPA 150.1											***************************************	
pH·	6.08			pH Units	1	6.00		101 3.33	3-101.666	τ.		
Reference (8070133-SRM6)						Analyzed: (07/16/08 18	:22				
EPA 150.1												
pН	8.03			pH Units	1	8.00		100 ₹8.7	5-101.25%	i		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 11 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/01/08 06:47

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional Cl	hemistry	/ Parametei	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8070190 - EPA 1664							Wat	ter				
Blank (8070190-BLK1)						Analyzed: 6	07/23/08 10	:06				
EPA 1664 HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8070190-BLK2)						Analyzed: (07/25/08 08	:54				
EPA 1664-SGT SGT-HEM (Non-polar	ND		5.00	mg/L	1							
Material)				g =								
LCS (8070190-BS1)						Analyzed: (7/23/08 10	:06				
EPA 1664												
HEM (Oil and Grease)	35.2			mg/L	1	40.0		88	78-114%			
LCS (8070190-BS2)						Analyzed: 0	7/25/08 08	:54	.,			
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	13.8			mg/L	1	20.0		69	54-132%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 12 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Рьопе 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported:

08/01/08 06:47

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Cor	mpounds by EPA 624			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	lnitial/Final	Factor
Batch: 8070138							
A807118-01	Water	EPA 624	07/16/08 09:00	07/17/08 13:18	5mL/5mL	5mL/5mL	1.00
		Semivolatile Org	janic Compounds by	y EPA 625 Modified (SI	M Analysis)		
Prep: EPA 3510C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8070150							
A807118-01	Water	EPA 625 SIM	07/16/08 09:00	07/18/08 09:28	1040mL/5mL	1000mL/5mL	0.96
			Total Metals by EP	A 200.8 (ICPMS)			<u> </u>
Prep: EPA 3015					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8070173							
A807118-01	Water	EPA 200.8	07/16/08 09:00	07/21/08 10:36	45mL/48mL	45mL/50mL	0.96
			Conventional Chem	nistry Parameters			
Prep: EPA 1664					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8070190							
A807118-01	Water	EPA 1664	07/16/08 09:00	07/22/08 09:33	1N/A/1N/A	1N/A/1mL	NA
A807118-01	Water	EPA 1664-SGT	07/16/08 09:00	07/22/08 09:33	1N/A/1N/A	IN/A/ImL	NA
Prep: Method Prep:	: A q				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8070133			***************************************				
A807118-01	Water	EPA 150.1	07/16/08 09:00	07/16/08 16:15	20mL/20mL	20mL/20mL	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 13 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Portland, OR 97217

Reported: Project Manager: Lian Jewell 08/01/08 06:47

Notes and Definitions

Qualifiers:

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for

Q-24 RPD for Blank Spike and Blank Spike Duplicate was above established control limit. Recoveries for both BS and BSD were within

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-02 Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Notes and Conventions:

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Sales/Marketing

Page 14 of 15

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Portland, OR 97217

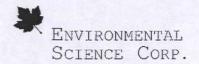
Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 08/01/08 06:47

TCC, Proce (8) BCBY Propries Bilit Chine Pest CHAIN OF CUSTODY SIBS LCE PHYLINIS OCCU 100A 100B 100B OOA NUBB 1978 BAEK 12332 S.W. Gentsu Place, Tigard, OR 97213 Ph. 303-716-2123 Fac. 301-716-1333 XIMITAL ALN 20-HSTVK GEORIFICED MEYANTHOD 100 MATERIA DIVID auva 9 QZ 21 A. TAT Requested (sircly)

Apex Laboratories



Tax I.D. 62-0814289

Est. 1970

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223

Report Summary

Friday August 01, 2008

Report Number: L355835 Samples Received: 07/18/08 Client Project: A807118

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesigate to call Jarred William Representative

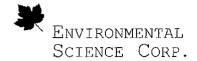
Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-227, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, CC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WY - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 996093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

1 Samples Reported: 07/31/08 10:59 Revised: 08/01/08 08:25
Page 1 of 7



12065 Lebanon Rd. 12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5658 1-800-767-5859 Fax (615) 758-5859

Tax 1.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 01, 2008

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

Date Received

18, 2008

ESC Sample # : L355835-01

Description

Sample ID

T-7-07-16 SUB CAT B

Site ID :

Project # : A807118

Collected By : Collection Date :

07/16/08 09:00

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Cyanide	0.0051	0.0017	0.0050	mg/l		335.4	07/22/08	1
Sulfide	28.	0.33	1.0	mg/l		4500-S2	07/24/08	20
Mercury	ū	0.000044	0.00020	mg/l		245.1	07/23/08	1
Tin	ប	0.0055	0.020	mg/l		200.7	07/22/08	1
Pesticide/PCBs Chlordane Pest/PCBs Surrogates Decachlorobiphenyl Tetrachloro-m-xylene	0.00	0.028	1.0	mg/l % Rec. % Rec.	0 J7 J7	608 608	07/28/08 07/28/08 07/28/08	200 200 200

U = ND (Not Detected) WDL = Minimum Detection Limit = LOD = SQL (TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP) Note: The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/31/08 10:59 Revised: 08/01/08 08:26

Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L355835-01	Chlordane Decachlorobiphenyl Tetrachloro-m-xylene	0 J7 J7

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

- Definitions

 Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

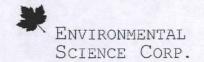
 Relates to how close together the results are and is represented by Relative Percent Differrence.
- Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TTC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 08/01/08 at 08:26:01

TSR Signing Reports: 358 R5 - Desired TAT

Always log metals by 6010; Log A# as project number; Always log dry weight for soils Use APEXBOR-NERENBERG or APEXBOR-DARWIN Always log CN water samples under method 335.4 as drinking water.

Sample: L355835-01 Account: APEXBOR Received: 07/18/08 09:00 Due Date: 07/30/08 00:00 RPT Date: 07/31/08 10:59 UNI 7/30 for a recapture to MDL/RDL TM 431884



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

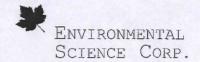
Tigard, OR 97223

Quality Assurance Report Level II

L355835

August 01, 2008

		000			
Analyte	Labor Result	atory Blank Units Date Ana	lyzed	Batch	
Cyanide	<	mg/l 07/22/08	10:42	WG372843	
Chlordane	< .005	mg/l 07/28/08	16:06	WG372889	
Tin	< .02	mg/l 07/22/08	02:05	WG373149	
Mercury		mg/1 07/23/08	16:04	WG373293	
Sulfide	< .05	mg/l 07/24/08	05:23	WG373545	
Anglista		plicate t Duplicate RPD	Limit	Dof Comp	Datab
Analyte	Units Resul			Ref Samp	Batch
Cyanide Cyanide	mg/l 0.00 mg/l 0.00	0.00 0.00	20	L355370-01 L355425-01	WG372843 WG372843
	0.00.0	0.00	20	L355696-01	WG373149
Mercury	mg/l 0.00	0.00 0.00	20	L355741-01	WG373293
Millian Markette (1995) Sulfide Sulfide	mg/l 0.00 mg/l 0.00	0.00 0.00 0.00 0.00	20 20 20	L355893-08 L355747-09	WG373545 WG373545
Analyte	Laboratory Units Know	Control Sample n Val Result	% Rec	Limit Ba	tch
Cyanide	mg/l	0.104	104.	90-110 WG	372843
Tin	mg/1 1	0.999	99.9	85-115 WG	373149
Mercury	mg/1 .003	0.00259	86.3	85-115 WG	373293
Sulfide	regularion $mg/1$ equation 2.5	0.491	98.2	90-110 WG	373545
Analyte	Laboratory Cont Units LCSD Re:	col Sample Duplicate s Ref Res RPD	Limit %Red	cBatch	
Cyanide	mg/l 0.098	7 0.104 5.23	20 99	WG372843	Carrier (2007)A-A Carrier (2007)A-A Carrier (2007)
Sulfide	mg/1 0.493	0.491 0.407	20 99	WG373545	
Analyte	Units MS Res	cix Spike Ref Res TV %	Rec Limit	Ref Samp	Batch
Cyanide	mg/l 0:173	0.00 .2	6.5 90-110	L355370-03	WG372843
Fin na jakona ilijeta ja apara jega ur lajoj plikis ilijej je visti sa ani su alova rastra	mg/l 0.983	0.00 1 9	8.3 75-125	5 L355696-01	WG373149
Mercury	mg/1 0.0030	0.00 .003 10	2. 70-130	L355741-01	WG373293
Sulfide	mg/1 0.972	0.00 1	7.2 90-110	L355893-07.	WG373545
Analyte	Matrix Sp Units MSD Res	pike Duplicate Ref Res RPD	Limit %Rec	Ref Samp	Batch
Cyanide	mg/1 0.173	0.173 0.00	20 86.5	5 L355370-03	3 WG37284
rin	mg/l 1.01	0.983 2.71	20 101.	L355696-0	WG37314
Mercury	mg/l 0.0030	0.0030 0.327	20 102.	L355741-0	WG373293



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

12232 S.W. Garden Pl. Tigard, OR 97223 Quality Assurance Report Level II

L355835

August 01, 2008

Batch number /Run number / Sample number cross reference

WG372889: R417767: L355835-01 WG372843: R418104: L355835-01 WG373149: R418324: L355835-01 WG373545: R420344: L355835-01 WG373293: R420426: L355835-01

^{* *} Calculations are performed prior to rounding of reported values .



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L355835

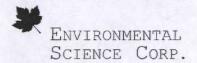
August 01, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



Tax I.D. 62-0814289

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223

Report Summary

Tuesday August 12, 2008

Report Number: L359098 Samples Received: 08/08/08 Client Project: A808055

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesigate to call. Jarred Marias Representative

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2877, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, MC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WY - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

1 Samples Reported: 08/12/08 14:43 Printed: 08/12/08 14:43 Page 1 of 4



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223 August 12, 2008

Date Received

August

08, 2008

ESC Sample # : L359098-01

Description

Site ID :

Sample ID

A808055-01

Project # :

A808055

Collected By : Collection Date :

08/05/08 15:00

Parameter Result Det. Limit Units Method Date Dil. 8270 SIM Pentachlorophenol \mathtt{BDL} 0.0040 mg/18270C 08/11/08 Surrogate Recovery 2,4,6-Tribromophenol 64.9 % Rec. 8270C 08/11/08

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

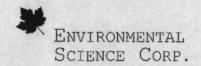
Reported: 08/12/08 14:43 Printed: 08/12/08 14:43

Summary of Remarks For Samples Printed 08/12/08 at 14:43:33

TSR Signing Reports: 358 R3 - Rush: Two Day

Always log metals by 6010; Log A# as project number; Always log dry weight for soils Use APEXBOR-NERENBERG or APEXBOR-DARWIN Always log CN water samples under method 335.4 as drinking water.

Sample: L359098-01 Account: APEXBOR Received: 08/08/08 09:00 Due Date: 08/12/08 00:00 RPT Date: 08/12/08 14:43 SV8270PCP = PCP only



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L359098

August 12, 2008

Analyte	Result Unit	Blank s Date An	alyzed	Batch	
Pentachlorophenol	Managara and Makament < .01 who were ppm	08/11/0	8 11:23	WG376732	
Analyte	Laboratory Contr Units Known Val	rol Sample Result	% Rec	Limit	Batch
Pentachlorophenol	ppm ,01	0.00465	46.5	20-122	WG376732
Analyte	Laboratory Control Sa Units LCSD Res Ref	mple Duplica Res RPD	te Limit %R	ec Bato	:h

Batch number /Run number / Sample number cross reference WG376732: R443804: L359098-01

^{* *} Calculations are performed prior to rounding of reported values .



Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L359098

August 12, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

APEX LABS

Assessment to the same of the

CHAIN OF CUSTODY

Lab# 4808055 coc_or_

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: CASCADIE GENTE	real		Project N									Proje	eci Ni	ime:	540 7-0	00	40	002-1	00)	Proj	ect#	1-0	00-	-00	02	-1	00
Address: 5555 N. Chang	val	1	DEPETZ		1	OKE	2	1	500	3-2	47-	16	34		50 Fax:	3-2	47.	-1640	Ema						AL.			
Sampled by: Bob Collin	50.	0					district the second	12 (1 W (12 (12 W)		1000 4000				15. 5° 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Nate Value		電路線	YSIS REQ	Sent.	有感染				8 75 X		d and	7	
SAMPLE ID 7-7-8-5-08	LAB ID#	Cy DATE	15% C	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	втех	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs	8270 SIM PAHS	8082 PCBs	8081 Chlor. Pest		Menor manage	Al, Sb, As, Ba, Be, Cd Ca, Cr, Co, Cu, Fe, Pb Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	-	1200-COLS	1200-Z	XPOP OWEY						
							-																					
TAT Requested (circle)	24 H 4 DA	R) Y	48 HR 5 DAY		2 HI Othe			Af	0		SPE	CIAI	LINS	TRU	стіс	NS:												
DELINOTECHED DA	-	-	of of	DECEL	UPDI	di	2	2			Signa	ture:	JISHE	D BY	/:			Date:				4 1,	REC Signal	EIVEE	BY:			•
Signature: St Collinson Printed Name: Bob Collinson Company: CASCADE GRNERAL	Time	1144		Compan Compan A	Name:	0	19	riz	en	,		ed Na						Time:					Com	pany:	e:			

SUBCONTRACT ORDER

Apex Laboratories A808055

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

ESC

12065 Lebanon Road Mt. Juliet, TN 37122 Phone :(800) 767-5859

Fax: (615) 758-5859

Sample Name: T-7-8-5-08		Water Sam	pled: 08/05/08 15:00	(A808055-01)
Analysis	Due	Expires	Comments	1359098-01
8270 SIM PCP	08/07/08 17:00	08/12/08 15:00	PCP limits .04mg/L	L359098
Containers Supplied: (A)1 L Amber Glass - Non Preserved	8-11-12			

 \mathcal{M}

		pH Checkad Custedy Seal Intack Fedex UFS Cou	You to N/A rier Other	
) (7 J)			5
Released By	Date	Received By	Date	
Federal Expres	S (Shipper) Date	Received By	Date	

Temp _



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Cascade General Source Name Alan Sprott Name Cascade General Company Name Source Address 5555 N. Channel Address 5555 N. Channel Ave Ave. Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1672 Facsimile Number 503/247-6050 Batch Information CWTAEmail Address asprott@casgen.com Batch Number: Proposed Discharge 50,000 gal Volume:* Request Date/Time: 09/08 0800 Actual Discharge Volume: Date Proposed: 9/10/05 Sampling Location: Duration of Discharge: Sampled? YES NO Start: Stop: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-A Discharge flow will be stopped if heavy rain develops. Flow will be held below gpm. Are the analysis sheets, OA/OC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: YES or NO Date of Approval: /2005 Approved By: Chris Collett Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best

Signature:

of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ Date:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE

Comments:

SELF-MONITORING REPORT
For Industrial Source Control Division Use Only

INDUSTRY NAME: Cascade General

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD: August 2005

	Org 2159	
Date Postmarked/Received	Date Entered	
	Entered By:	

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE	TYPE			
8/22/05	CV	VT2B	GRA	В			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		IDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	NA mg/L		2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	49 mg/L		2.0	110 mg/L	N/A	
РН	EPA 150.1	9.38 SU			5.0 - 11.5	N/A	
Cyanide (Total)	SM 4500	0.007 mg/I	0.	0030	1.2 mg/L	N/A	
Sulfide (Dissolved)	EPA 376.1	ND mg/L		1.0	4.0 mg/L	N/A	
1,2-Dichloroethane	EPA 624	ND mg/L	0.	0005	0.50 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND mg/L	0.	0084	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND mg/L	0	.010	1.0 mg/L	N/A	
Chlordane	EPA 625	ND mg/L	0.	0028	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND mg/L	0.	0005	0.20 mg/L	N/A	
Chloroform	EPA 624	ND mg/L	0.	0005	0.20 mg/L	N/A	
Nitrobenzene	EPA 625	ND mg/L	0.	0042	2.0 mg/L	N/A	
Pentachlorophenol	EPA 625	ND mg/L	0	.021	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND mg/L	0.	0005	0.20 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPI				
8/01/05	CV	VT2B	COMPOSITE				
PARAMETER	PARAMETER ANALYSIS REPORTED CONCENTRATION			DAILY	LIMITS DAILY MONTHLY		
Antimony (Total)	EPA 200.7	ND mg/L	0.020	0.249 mg/L	0.206 mg/L		
Arsenic (Total)	EPA 200.7	ND mg/L	0.010	0.162 mg/L	0.104 mg/L		
Cadmium (Total)	EPA 200.7	ND mg/L	0.003	0.474 mg/L	0.0962 mg/L		
Chromium (Total)	EPA 200.7	ND mg/L	0.005	5.0 mg/L	3.07 mg/L		
Cobalt (Total)	EPA 200.7	ND mg/L	0.01	0.192 mg/L	0.124 mg/L		
Copper (Total)	EPA 200.7	0.005 mg/I	0.005	3.7 mg/L	1.06 mg/L		
Lead (Total)	EPA 200.7	ND mg/L	0.005	0.7 mg/L	0.283 mg/L		
Mercury (Total)	EPA 245.7	ND mg/L	0.0003	0.00234 mg/L	0.000739 mg/L		
Molybdenum (Total)	EPA 200.7	ND mg/L	0.03	1.4 mg/L	N/A		
Nickel (Total)	EPA 200.7	ND mg/L	0.020	2.8 mg/L	1.45 mg/L		
Selenium (Total)	EPA 200.7	ND mg/L	0.10	0.6 mg/L	0.408 mg/L		
Silver (Total)	EPA 200.7	ND mg/L	0.010	0.120 mg/L	0.0351 mg/L		
Tin (Total)	EPA 200.7	0.05 mg/L	0.04	0.409 mg/L	0.120 mg/L		
Titanium (Total)	EPA 200.7	ND mg/L	0.05	0.0947 mg/L	0.0618 mg/L		
Vanadium (Total)	EPA 200.7	ND mg/L	0.020	0.218 mg/L	0.0662 mg/L		
Zinc (Total)	EPA 200.7	ND mg/L	0.003	2.87 mg/L	0.641 mg/L		

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:



CERTIFICATE OF ANALYSIS

CLIENT: Cascade General

ATTN: Alan Sprott

P.O. Box 4367 Portland OR, 97208 PROJECT NAME: Wastewater Disch Permit Test - A

Subcat. A

PROJECT NUMBER: 85806

PHONE: (503) 703-0875

FAX: (503) 247-6050

SUBMITTED: 08/22/05 12:20

REPORT DATE: 08/26/05 15:25 REPORT NUMBER: 5082208

PAGE: 1 OF 13

CISAMPLE	CLIENTS ID#		DATE	TIME	MATRIX			
5082208-01	Cooker #5 - 8/22			2/2005 1220	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT		DATE/TIME	NOTES
5082208-01	SAMPLE ID: Cook	er #5 - 8/22						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B-C	CYANIDE	0.0070	mg/L	0.0030	MRP	08/25/2005 13:55	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	49	mg/L	2	DR	08/24/2005 11:34	
PH	EPA 150.1/9040	рН	9,38	SU	100	MRP	08/22/2005 15:57	
		TEMPERATURE (C)	24.6	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	MRP	08/23/2005 12:02	
Total Mercury b	y Cold Vapor Atomi	c Absorption						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000300	MRP	08/25/2005 12:02	
Total Metals by	Inductively Coupled	d Plasma						***
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	вкв	08/25/2005 12:28	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	вкв	08/25/2005 12:28	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	BKB	08/25/2005 12:28	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	вкв	08/25/2005 12:28	
COBALT - ICP	,	COBALT	ND	mg/L	0.010	вкв	08/25/2005 12:28	
COPPER - ICP		COPPER	0.005	mg/L	0.005	вкв	08/25/2005 12:28	
LEAD - ICP		LEAD	ND	mg/L	0.005	вкв	08/25/2005 12:28	
MOLYBDENUM -		MOLYBDENUM	ND	mg/L	0.030	ВКВ	08/25/2005 12:28	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	вкв	08/25/2005 12:28	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	вкв	08/25/2005 12:28	
SILVER - ICP		SILVER	ND	mg/L	0.010	вкв	08/25/2005 12:28	
TIN - ICP		TIN	ND	mg/L	0.040	вкв	08/25/2005 12:28	
TITANIUM - ICP		TITANIUM	ND	mg/L	0.050	вкв	08/25/2005 12:28	
VANADIUM - ICP		VANADIUM	ND	mg/L	0.020	вкв	08/25/2005 12:28	
ZINC - ICP		ZINC	ND	mg/L	0.003	вкв	08/25/2005 13:26	
Volatile Organic	s by Gas Chromato	ography/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE CHLOROBENZENE	ND ND	mg/L mg/L	0.0100 0.0005	PA	08/22/2005 17:04	

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC.

7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-5355 E-mail: lab@ColumbiaInspection.com



CERTIFICATE OF ANALYSIS

REPORT DATE	: 08/26/05 1	5:25 REPORT	REPORT NUMBER:5082208						
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES	
5082208-01	SAMPLE ID: Co	oker #5 - 8/22							
Volatile Organics	by Gas Chroma	atography/Mass Spectroscopy							
VOC 624 Extended	EPA 624	CHLOROFORM	ND	mg/L	0.0005	PA	08/22/2005 17:04		
		1,2-DICHLOROETHANE	ND	mg/L	0.0005				
		TRICHLOROETHYLENE	ND	mg/L	0.0005				
		Surrogate: Dibromofluoromethane	69.2 %	%RECOVERY	50-150				
		Surrogate: Fluorobenzene	83.3 %	%RECOVERY	50-150				
		Surrogate: Chlorobenzene-d5	75.0 %	%RECOVERY	50-150				
		Surrogate: 1,4-Dichlorobenzene-d4	74.1 %	%RECOVERY	50-150				
Semi-Volatile Or	ganics by Gas C	Chromatography/Mass Spectroscopy							
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.021	DM	08/24/2005 19:53		
		Surrogate: Phenol-d6	21.0 %	%RECOVERY	20-150				
		Surrogate: 2,4,6-Tribromophenol	57.8 %	%RECOVERY	50-150				
B/N SEMIVOL 625		2,4-DINITROTOLUENE	ND	mg/L	0.0084	DM	08/24/2005 19:53		
		NITROBENZENE	ND	mg/L	0.0042				
		Surrogate: 2-Fluorobiphenyl	86.7 %	%RECOVERY	50-150				
		Surrogate: Nitrobenzene-D5	103 %	%RECOVERY	50-150				
		Surrogate: p-terphenyl-D14	127 %	%RECOVERY	50-150				
Semi-Volatile Or	ganics by Gas C	Chromatography/ECD							
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.0028	DM	08/24/2005 19:53		
		4,4-DDT	ND	mg/L	0.0056				
		DIELDRIN	ND	mg/L	0.0028				
		ENDOSULFAN I	ND	mg/L	0.0028				
		ENDOSULFAN II	ND	mg/L	0.0056				
		ENDOSULFAN SULFATE	ND	mg/L	0.0056				
		ENDRIN	ND	mg/L	0.0028				
		ENDRIN ALDEHYDE	ND	mg/L	0.0070				
		ENDRIN KETONE	ND	mg/L	0.0070				
		HEPTACHLOR	ND	mg/L	0.0028				
		HEPTACHLOR EPOXIDE	ND	mg/L	0.0028				
		ALPHA-CHLORDANE	ND	mg/L	0.0028				
		METHOXYCHLOR	ND	mg/L	0.0070				
		GAMMA-CHLORDANE	ND	mg/L	0.0028				
		TOXAPHENE	ND	mg/L	0.056				

This report may not be reproduced except in full.



CERTIFICATE OF ANALYSIS

REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 3 OF 13

General Bench Analysis - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5H22009 - General Prep	aration _									
QC SAMPLE:	Reference (5H22009-SRM1)					Prepared	& Analyzed	1: 08/22/05			
рН		5.08		SU	5.00		102	97.5-102			
QC SAMPLE:	Reference (5H22009-SRM2)					Prepared	& Analyzed	1: 08/22/05			
рН		7.90		su	8.00		98.8	97.5-102			
BATCH: Batc	th 5H24003 - *** DEFAULT	PREP ***									
QC SAMPLE:	Blank (5H24003-BLK1)					Prepared	& Analyzed	I: 08/24/05			
NONPOLAR OIL	& GREASE	ND	2	mg/L							
QC SAMPLE:	LCS (5H24003-BS1)					Prepared	& Analyzed	1: 08/24/05			
NONPOLAR OIL	& GREASE	31.5	2	mg/L	41.1		76.6	66-114			
QC SAMPLE:	LCS Dup (5H24003-BSD1)					Prepared of					
NONPOLAR OIL	& GREASE	34.8	2	mg/L	41.1		84.7	66-114	9.95	24	
BATCH: Batc	h 5H25012 - General Prep	aration									
QC SAMPLE:	Blank (5H25012-BLK1)					Prepared	& Analyzed	I: 08/25/05			
CYANIDE		ND	0.0030	mg/L					_		
QC SAMPLE:	Duplicate (5H25012-DUP1)			Source: 508	1903-01	Prepared of	& Analyzed	I: 08/25/05			
CYANIDE		0.00300	0.0030	mg/L		ND				20	
QC SAMPLE:	Reference (5H25012-SRM1)					Prepared of	& Analyzed	I: 08/25/05			
CYANIDE		99.6	0.0030	mg/L	100		99.6	90-110			

This report may not be reproduced except in full.



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 4 OF 13

Total Mercury by Cold Vapor Atomic Absorption - Quality Control

Batch/Sample	Analyte Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bate	:h 5H25008 - ***Metals Prep***								-	
QC SAMPLE:	Calibration Blank (5H25008-CCB1)				Prepared	& Analyzed	: 08/25/05			
MERCURY	ND	0.000300	mg/L							
QC SAMPLE:	Calibration Blank (5H25008-CCB2)				Prepared	& Analyzed	: 08/25/05			
MERCURY	ND	0.000300	mg/L							
QC SAMPLE:	Reference (5H25008-SRM1)				Prepared	& Analyzed	: 08/25/05			
MERCURY	0.000196	0.000060	mg/L	0.00020		98.0	90-110			
QC SAMPLE:	Reference (5H25008-SRM2)				Prepared	& Analyzed	: 08/25/05			
MERCURY	0.000191	0.000060	mg/L	0.00020		95.5	90-110			



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 5 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 5H25009 - ***Meta	ls Prep***									·
QC SAMPLE:	Calibration Blank (5)	125009-CCB1)				Prepared	& Analyzed	: 08/25/05			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009	н							
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004								
COBALT		ND	0.0090								
COPPER		ND	0.004	0							
LEAD		ND	0.004	n							
MOLYBDENUM		ND	0.027	n							
NICKEL		NĐ	0.018								
SELENIUM		ND	0.090	n							
SILVER		ND	0.009								
TIN		ND	0.036	п							
TITANIUM		ND	0.045	0							
VANADIUM		ND	0.018	11							
ZINC		ND	0.003	п							
QC SAMPLE:	Calibration Blank (5	125009-CCB2)				Prepared	& Analyzed	: 08/25/05			
ANTIMONY		ND	0.018	mg/L							
ARSENIC		ND	0.009	n							
CADMIUM		ND	0.003								
CHROMIUM		ND	0.004	н							
COBALT		ND	0.0090								
COPPER		ND	0.004	**							
LEAD		ND	0.004								
MOLYBDENUM		0.030	0.027								
NICKEL		ND	0.018								
SELENIUM		ND	0.090	"							
SILVER		ND	0.009	**							
TIN		ND	0.036	п		*					
TITANIUM		ND	0.045								
VANADIUM		ND	0.018								
ZINC		ND	0.003								

This report may not be reproduced except in full.



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 6 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	ch 5H25009 - ***Metals Prep)***									
QC SAMPLE:	Reference (5H25009-SRM1)					Prepared 8	& Analyzed	: 08/25/05			
ANTIMONY		1.12	0.018	mg/L	1.00		112	85-115			
ARSENIC	·	1.05	0.009		1.00		105	85-115			
CADMIUM		1.04	0.003	**	1.00		104	85-115			
CHROMIUM		1.10	0.004	"	1.00		110	85-115			
COBALT		1.06	0.0090	"	1.00		106	85-115			
COPPER		1.07	0.004	"	1.00		107	85-115			
LEAD		1.11	0.004	**	1.00		111	85-115			
MOLYBDENUM		0.998	0.027		1.00		99.8	85-115			
NICKEL		1.09	0.018	"	1.00		109	85-115			
SELENIUM		1.08	0.090	**	1.00		108	85-115			
TITANIUM		1.06	0.045	"	1.00		106	85-115			
VANADIUM		1.06	0.018	"	1.00		106	85-115			
ZINC		0.983	0.003	11	1.00		98.3	85-115			
QC SAMPLE:	Reference (5H25009-SRM2)					Prepared 8	& Analyzed	: 08/25/05			
ANTIMONY		1.10	0.018	mg/L	1.00		110	85-115			
ARSENIC		1.09	0.009		1.00		109	85-115			
CADMIUM		1.09	0.003	**	1.00		109	85-115			
CHROMIUM		1.15	0.004	n	1.00		115	85-115			
COBALT		1.07	0.0090	**	1.00		107	85-115			
COPPER		1.06	0.004	**	1.00		106	85-115			
LEAD		1.14	0.004	н	1.00		114	85-115			
MOLYBDENUM		0.907	0.027	+1	1.00		90.7	85-115			
NICKEL		1.11	0.018	11	1.00		111	85-115			
SELENIUM		1.08	0.090	п	1.00		108	85-115			
TITANIUM		1.07	0.045	19	1.00		107	85-115			
VANADIUM		1.06	0.018	11	1.00		106	85-115			
ZINC		1.02	0.003		1.00		102	85-115			



REPORT DATE: 08/26/05 15:25 REPORT NUMBER:5082208 PAGE: 7 OF 13

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 5H25009 - ***Metals Pre	p***									
QC SAMPLE:	Reference (5H25009-SRM3)					Prepared 6	& Analyzed	: 08/25/05			
SILVER		0.524	0.009	mg/L	0.500		105	85-115			
QC SAMPLE:	Reference (5H25009-SRM4)					Prepared	& Analyzed	: 08/25/05			
SILVER		0.531	0.009	mg/L	0.500		106	85-115			
QC SAMPLE:	Reference (5H25009-SRM5)					Prepared 4	& Analyzed	: 08/25/05			
TIN		0.982	0.036	mg/L	1.00		98.2	90-110			
QC SAMPLE:	Reference (5H25009-SRM6)					Prepared (& Analyzed	: 08/25/05			
TIN		0.998	0.036	mg/L	1.00		99.8	90-110			



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 8 OF 13

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H25001 - Volatiles										
QC SAMPLE: Blank (5H25001-BLK1)					Prepared	& Analyzed	: 08/22/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	n							
CHLOROFORM	ND	0.0005	n n							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.005887		"	0.00809		72.7	50-150		.,	
Surrogate: Fluorobenzene	0.007456		"	ō.00809		92.1	50-150			
Surrogate: Chlorobenzene-d5	0.006348		"	ō.00809		78.4	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006082		"	0.00809		75.1	50-150			
QC SAMPLE: Blank (5H25001-BLK2)					Prepared 8	& Analyzed	: 08/22/05			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	0							
TRICHLOROETHYLENE	ND	0.0005	**							
Surrogate: Dibromofluoromethane	0.005660		"	0.00809		69.9	50-150			
Surrogate: Fluorobenzene	0.007140		"	ō.00809		88.2	50-150			
Surrogate: Chlorobenzene-d5	0.006420		"	0.00809		79.3	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.005640		"	0.00809		69.7	50-150			
QC SAMPLE: Reference (5H25001-SRM	/ 11)			_	Prepared 8	& Analyzed	: 08/22/05			
CHLOROBENZENE	0.008180	0.0005	mg/L	0.01000		81.8	50-150			
CHLOROFORM	0.008140	0.0005	- "	0.01000		81.4	50-150			
1,2-DICHLOROETHANE	0.009560	0.0005	11	0.01000		95.6	50-150			
TRICHLOROETHYLENE	0.006850	0.0005	17	0.01000		68.5	50-150			
Surrogate: Dibromofluoromethane	0.006781		"	0.00809		83.8	50-150			
Surrogate: Fluorobenzene	0.007790		"	0.00809		96.2	50-150		•	
Surrogate: Chlorobenzene-d5	0.007264		"	0.00809		89.7	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006664		"	0.00809		82.3	50-150			

This report may not be reproduced except in full.



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 9 OF 13

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H25001 - Volat	iles							-		
QC SAMPLE: Reference (5H2500	1-SRM2)				Prepared 8	& Analyzed	: 08/22/05			
CHLOROBENZENE	0.008550	0.0005	mg/L	0.01000		85.5	50-150			
CHLOROFORM	0.007860	0.0005	*	0.01000		78.6	50-150			
1,2-DICHLOROETHANE	0.01031	0.0005	**	0.01000		103	50-150			
TRICHLOROETHYLENE	0.007860	0.0005	11	0.01000		78.6	50-150			
Surrogate: Dibromofluoromethane	0.006152		"	0.00809		76.0	50-150			
Surrogate: Fluorobenzene	0.007430		"	0.00809		91.8	50-150			
Surrogate: Chlorobenzene-d5	0.007244		u	ō.00809		89.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006780		"	0.00809		83.8	50-150			
QC SAMPLE: Reference (5H2500	1-SRM3)	•			Prepared 8	& Analyzed	: 08/22/05			
ACRYLONITRILE	0.1109	0.0100	mg/L	0.1000		111	0-200			
Surrogate: Dibromofluoromethane	0.005030		"	0.00809		62.1	50-150			
Surrogate: Fluorobenzene	0.004676		"	0.00809		57.8	50-150			
Surrogate: Chlorobenzene-d5	0.008238		"	0.00809		102	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008205		,	ō.00809		101	50-150			
QC SAMPLE: Reference (5H2500	1-SRM4)			_	Prepared 8	& Analyzed	: 08/22/05			
ACRYLONITRILE	0.1230	0.0100	mg/L	0.1000		123	0-200			
Surrogate: Dibromofluoromethane	0.005345		и	0.00809		66.0	50-150			
Surrogate: Fluorobenzene	0.004973		"	Õ.00809		61.4	50-150			
Surrogate: Chlorobenzene-d5	0.008386		"	ō.00809		104	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009278		"	0.00809		115	50-150			



REPORT DATE: 08/26/05 15:25 REPORT NUMBER:5082208 PAGE: 10 OF 13

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H26004 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (5H2	6004-CCB1)				Prepared 8	& Analyzed	: 08/24/05			
2,4-DINITROTOLUENE	ND	2.0	mg/L							
NITROBENZENE	ND	0.98	"							
Surrogate: 2-Fluorobiphenyl	21.2	-	"	20.0		106	50-150			
Surrogate: Nitrobenzene-D5	20.2		"	20.0		101	50-150			
Surrogate: p-terphenyl-D14	19.6		"	20.0		98.0	50-150			
QC SAMPLE: Calibration Blank (5H2	6004-CCB2)		,		Prepared:	08/24/05 A	Analyzed: 0	8/25/05		
2,4-DINITROTOLUENE	ND	2.0	mg/L							
NITROBENZEN E	ND	0.98	"							
Surrogate: 2-Fluorobiphenyl	21.1		"	20.0		106	50-150			
Surrogate: Nitrobenzene-D5	18.8		"	20.0		94.0	50-150			
Surrogate: p-terphenyl-D14	18.9		"	20.0		94.5	50-150			
QC SAMPLE: Reference (5H26004-SI	RM1)				Prepared 8	& Analyzed	: 08/24/05			
2,4-DINITROTOLUENE	26.7	2.0	mg/L	25.0		107	80-120			
NITROBENZENE	29.2	0.98	H	25.0		117	80-120			
Surrogate: 2-Fluorobiphenyl	26.0		"	25.0		104	50-150			
Surrogate: Nitrobenzene-D5	25.3		"	25.0		101	50-150			
Surrogate: p-terphenyl-D14	25.6		"	25.0		102	50-150			
QC SAMPLE: Reference (5H26004-SI	RM2)				Prepared:	08/24/05 A	Analyzed: 0	8/25/05		
2,4-DINITROTOLUENE	26.6	2.0	mg/L	25.0		106	80-120			
NITROBENZENE	20.8	0.98	"	25.0		83.2	80-120			
Surrogate: 2-Fluorobiphenyl	26.9		"	25.0		108	50-150			
Surrogate: Nitrobenzene-D5	22.2		"	25.0		88.8	50-150			
Surrogate: p-terphenyl-D14	25.3		"	25.0		101	50-150			

This report may not be reproduced except in full.



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 11 OF 13

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H26013 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (5H2	6013-CCB1)				Prepared	& Analyzed	: 08/24/05			
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: Phenol-d6	40.9		"	40.0		102	50-150			
Surrogate: 2,4,6-Tribromophenol	39.4		"	40.0		98.5	50-150			
QC SAMPLE: Calibration Blank (5H2	6013-CCB2)				Prepared:	08/24/05 /	Analyzed: 0	8/25/05		
PENTACHLOROPHENOL	ND	4.9	mg/L							
Surrogate: Phenol-d6	33.8		н	40.0		84.5	50-150			
Surrogate: 2,4,6-Tribromophenol	36.1		"	40.0		90.2	50-150			
QC SAMPLE: Reference (5H26013-S	RM1)			-	Prepared	& Analyzed	: 08/24/05			
PENTACHLOROPHENOL	28.8	4.9	mg/L	25.0		115	80-120			
Surrogate: Phenol-d6	25.5		"	25.0		102	50-150			
Surrogate: 2,4,6-Tribromophenol	23.3		"	25.0		93.2	50-150			
QC SAMPLE: Reference (5H26013-S	RM2)				Prepared:	08/24/05	Analyzed: 0	8/25/05		
PENTACHLOROPHENOL	19.2	4.9	mg/L	25.0		76.8	75-120			
Surrogate: Phenol-d6	23.4		"	25.0		93.6	50-150			
Surrogate: 2,4,6-Tribromophenol	29.5		"	25.0		118	50-150			



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 12 OF 13

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H26016 - *** Orga	nic Prep ***									
QC SAMPLE: Calibration Blank (5H2	26016-CCB1)				Prepared a	& Analyzed	I: 08/24/05			
CHLORDANE	ND	0.65	mg/L							
4,4-DDT	ND	1.3	- "							
DIELDRIN	ND	0.65	"							
ENDOSULFAN I	ND	0.65	"							
ENDOSULFAN II	ND	1.3	"							
ENDOSULFAN SULFATE	ND	1.3	11							
ENDRIN	ND	0.65								
ENDRIN ALDEHYDE	ND	1.6								
ENDRIN KETONE	ND	1.6								
HEPTACHLOR	ND	0.65	"							
HEPTACHLOR EPOXIDE	ND	0.65	. "							
ALPHA-CHLORDANE	ND	0.65								
METHOXYCHLOR	ND	1.6								
GAMMA-CHLORDANE	ND	0.65	**							
TOXAPHENE	ND	13	II.							
QC SAMPLE: Calibration Blank (5H2	26016-CCB2)				Prepared:	08/24/05	Analyzed: 0	8/25/05		
CHLORDANE	ND	0.65	mg/L							
4,4-DDT	ND	1.3								
DIELDRIN	ND	0.65								
ENDOSULFAN I	ND	0.65								
ENDOSULFAN II	ND	1.3								
ENDOSULFAN SULFATE	ND	1.3	**							
ENDRIN	ND	0.65								
ENDRIN ALDEHYDE	ND	1.6	"							
ENDRIN KETONE	ND	1.6								
HEPTACHLOR	ND	0.65	н							
HEPTACHLOR EPOXIDE	ND	0.65	**							
ALPHA-CHLORDANE	ND	0.65	n							
METHOXYCHLOR	ND	1.6	II							
GAMMA-CHLORDANE	ND	0.65	"							
TOXAPHENE	ND	13	11							



REPORT DATE:

08/26/05 15:25

REPORT NUMBER:5082208

PAGE: 13 OF 13

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 5H26016 - *** Organic P	rep ***				_					
QC SAMPLE: Reference (5H26016-SRM1)	_				Prepared &	Analyzed	: 08/24/05			
ALPHA-BHC	4.47	0.33	mg/L	5.00		89.4	50-150			
BETA-BHC	5.19	0.65	"	5.00		104	50-150			
4,4-DDT	4.37	1.3	и	5.00		87.4	50-150			
DIELDRIN	4.31	0.65	n	5.00		86.2	50-150			
ENDOSULFAN I	4.59	0.65	**	5.00		91.8	50-150			
ENDOSULFAN II	4.55	1.3	**	5.00		91.0	50-150			
ENDOSULFAN SULFATE	4.23	1.3	"	5.00		84.6	50-150			
ENDRIN	5.25	0.65	n	5.00		105	50-150			
ENDRIN ALDEHYDE	4.20	1.6	**	5.00		84.0	50-150			
ENDRIN KETONE	3.85	1.6	"	5.00		77.0	50-150			
HEPTACHLOR	4.04	0.65		5.00		80.8	50-150			
HEPTACHLOR EPOXIDE	4.08	0.65	**	5.00		81.6	50-150			
ALPHA-CHLORDANE	5.15	0.65		5,00		103	50-150			
METHOXYCHLOR	3.69	1.6	"	5.00		73.8	50-150			
GAMMA-CHLORDANE	5.11	0.65	n	5.00		102	50-150			
QC SAMPLE: Reference (5H26016-SRM2)					Prepared: 0	8/24/05 A	Analyzed: 0	8/25/05		
ALPHA-BHC	4.68	0.33	mg/L	5.00		93.6	50-150			
BETA-BHC	4.04	0.65	**	5.00		80.8	50-150			
4,4-DDT	4.11	1.3	"	5.00		82.2	50-150			
DIELDRIN	4.15	0.65	**	5.00		83.0	50-150			
ENDOSULFAN I	4.72	0.65	п	5.00		94.4	50-150			
ENDOSULFAN II	4.73	1.3	11	5.00		94.6	50-150			
ENDOSULFAN SULFATE	3.40	1.3		5.00		68.0	50-150			
ENDRIN	4.62	0.65	п	5.00		92.4	50-150			
ENDRIN ALDEHYDE	4.20	1.6		5.00		84.0	50-150			
ENDRIN KETONE	3.61	1.6	"	5.00		72.2	50-150			
HEPTACHLOR	3.99	0.65	"	5.00		79.8	50-150			
HEPTACHLOR EPOXIDE	4.10	0.65	11	5.00		82.0	50-150			
ALPHA-CHLORDANE	4.93	0.65	**	5.00		98.6	50-150			
METHOXYCHLOR	3.65	1.6	"	5.00		73.0	50-150			
GAMMA-CHLORDANE	4.85	0.65	"	5.00		97.0	50-150			





6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Permit Contact Waste Generator Information Information Source Name Cascade General Name Lian Jewell Company Name Cascade General Source Address 5555 N. Channel Ave. Address 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 Facsimile Number 503/247-6050 Email Address CWTAljewell@vigorindustrial.net Batch Information Batch Number: Proposed Discharge 60,000 gal Volume:* Actual Discharge Request Date/Time: 9/29//06 11:00 a.m. Volume: Sampling Location: T-17, BWTP Date Proposed: 9/30/06 Duration of Discharge: Stop: Sampled? YES NO Start: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-A Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Date of Approval: Batch discharge approval: YES or NO /2006 Approved By: Chris Collett Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best

Phone: 503-823-5600 TDD: 503-823-3520 www.cleanrivers-pdx.org An Equal Opportunity Employer Printed on recycled paper.

of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Date:

	III OF FURILAND
INDUSTRIAI	WASTEWATER DISCHARGE
SELF-	MONITORING REPORT

INDUSTRY NAME: Cascade General

437.003B PERMIT NUMBER:

REPORT DUE DATE:

Every Batch

September, 2006 SAMPLING PERIOD:

	Org 2159
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
9/18/06	CW	VT2A	GRAB			
PARAMETER	ANALYSIS METHOD	REPORTEI CONCENTRAT		DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	9.4 mg/L	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	3.4 mg/L	2.0	110 mg/L	N/A	
РН	EPA 150.1	9.95 SU		5.0 - 11.5	N/A	
Cyanide (Total)	SM 4500	ND	0.0030	1.2 mg/L	N/A	
Sulfide (Dissolved)	EPA 376.1	ND	1.0	4.0 mg/L	N/A	
1,2-Dichloroethane	EPA 624	ND	0.0005	0.50 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND	0.0128	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND	0.100	1.0 mg/L	N/A	
Chlordane	EPA 625	ND	0.004	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND	0.0005	0.20 mg/L	N/A	
Chloroform	EPA 624	ND	0.0005	0.20 mg/L	N/A	
Nitrobenzene	EPA 625	ND	0.0064	2.0 mg/L	N/A	
Pentachlorophenol	EPA 625	ND	0.0320	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND	0.0005	0.20 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE	TYPE			
9/18/06	CV	VT2A	COMPOS	ITE			
PARAMETER	METER ANALYSIS REPORTED CONCENTRATION			DL	DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.0	030	0.249 mg/L	0.206 mg/L	
Arsenic (Total)	EPA 200.7	ND	0.0	030	0.162 mg/L	0.104 mg/L	
Cadmium (Total)	EPA 200.7	ND	0.0	003	0.474 mg/L	0.0962 mg/L	
Chromium (Total)	EPA 200.7	ND	0.0	005	5.0 mg/L	3.07 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.0	010	0.192 mg/L	0.124 mg/L	
Copper (Total)	EPA 200.7	0.046 mg/I	0.0	005	3.7 mg/L	1.06 mg/L	
Lead (Total)	EPA 200.7	0.006 mg/I	0.0	005	0.7 mg/L	0.283 mg/L	
Mercury (Total)	EPA 245.7	ND	0.00	0005	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.7	ND	0.0	008	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	ND	0.0)20	2.8 mg/L	1.45 mg/L	
Selenium (Total)	EPA 200.7	ND	0.	10	0.6 mg/L	0.408 mg/L	
Silver (Total)	EPA 200.7	ND	0.0	010	0.120 mg/L	0.0351 mg/L	
Tin (Total)	EPA 200.7	ND	0.0	040	0.409 mg/L	0.120 mg/L	
Titanium (Total)	EPA 200.7	ND	0.0)50	0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)	EPA 200.7	ND	0.0)20	0.218 mg/L	0.0662 mg/L	
Zinc (Total)	EPA 200.7	0.044 mg/I	0.0)20	2.87 mg/L	0.641 mg/L	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:
------------	-------



CLIENT: Cascade General

ATTN: Bob Collinson

P.O. Box 4367 Portland OR, 97208 PROJECT NAME: Wastewater Disch Permit Test - A

Subcat. A

PROJECT NUMBER: 85806

PHONE: (503) 247-1634

FAX: (503) 247-1680

SUBMITTED: 09/18/06 16:00

REPORT DATE: 09/29/06 07:41

REPORT NUMBER: 6091811

PAGE: 1 OF 15

CISAMPLE	CLIENTS ID#		DATE	TIME	MATRIX			
6091811-01	T-17 - 9-18		09/18	3/2006 1350	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6091811-01	SAMPLE ID: T-17	- 9-18						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	ND	mg/L	0.0030	DAU	09/22/2006 13:51	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	3.4	mg/L	2.0	JRW	09/26/2006 13:34	
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	9.4	mg/L	2.0	JRW	09/26/2006 13:34	
PH	EPA 150.1/9040	рН	9.95	SU		DAU	09/19/2006 08:28	
		TEMPERATURE (C)	11.0	SU		74144		
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	DAU	09/22/2006 13:50	
Total Mercury b	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEL	09/28/2006 14:14	
Total Metals by	Inductively Coupled	d Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.030	KEL	09/22/2006 08:12	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.030	KEL	09/21/2006 08:12	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	09/21/2006 08:12	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	KEL	09/21/2006 08:12	
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	09/22/2006 08:12	
COPPER - ICP		COPPER	0.046	mg/L	0.005	KEL	09/21/2006 08:12	
LEAD - ICP		LEAD	0.006	mg/L	0.005	KEL	09/21/2006 08:12	
MOLYBDENUM -		MOLYBDENUM	ND	mg/L	0.008	KEL	09/22/2006 08:12	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	KEL	09/22/2006 08:12	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	09/21/2006 08:12	
SILVER - ICP		SILVER	ND	mg/L	0.010	KEL	09/21/2006 10:04	
TIN - ICP		TIN	ND	mg/L	0.040	KEL	09/25/2006 08:17	
TITANIUM - ICP		TITANIUM	ND	mg/L	0.050	KEL	09/25/2006 08:50	
VANADIUM - ICP		VANADIUM	ND	mg/L	0.020	KEL	09/25/2006 08:50	
ZINC - ICP		ZINC	0.044	mg/L	0.020	KEL	09/22/2006 08:12	

Volatile Organics by Gas Chromatography/Mass Spectroscopy

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	: 09/29/06 07:41	REPORT I	NUMBER:6091	811			PAGE: 2 OF 1		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES	
6091811-01	SAMPLE ID: T-17 - 9-	-18							
Volatile Organics	s by Gas Chromatogr	aphy/Mass Spectroscopy							
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	JRW	09/26/2006 10:16		
		CHLOROBENZENE	ND	mg/L	0.0005				
		CHLOROFORM ·	ND	mg/L	0.0005				
		1,2-DICHLOROETHANE	ND	mg/L	0.0005				
		TRICHLOROETHYLENE	ND	mg/L	0.0005				
		Surrogate: Dibromofluoromethane	103 %	%RECOVERY	50-150				
		Surrogate: Fluorobenzene	82.0 %	%RECOVERY	50-150				
		Surrogate: Chlorobenzene-d5	108 %	%RECOVERY	50-150				
		Surrogate: 1,4-Dichlorobenzene-d4	93.0 %	%RECOVERY	50-150				
Semi-Volatile Or	ganics by Gas Chrom	natography/Mass Spectroscopy							
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0320	DM	09/22/2006 13:07		
		Surrogate: Phenol-d6	24.1 %	%RECOVERY	50-150				
		Surrogate: 2,4,6-Tribromophenol	66.0 %	%RECOVERY	50-150				
B/N SEMIVOL 625		2,4-DINITROTOLUENE	ND	mg/L	0.0128	DM	09/22/2006 13:07		
		NITROBENZENE	ND	mg/L	0.00640				
		Surrogate: 2-Fluorobiphenyl	62.0 %	%RECOVERY	50-150				
		Surrogate: Nitrobenzene-D5	81.4 %	%RECOVERY	50-150				
		Surrogate: p-terphenyl-D14	60.2 %	%RECOVERY	50-150				
Semi-Volatile Or	ganics by Gas Chrom	natography/ECD							
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00400	DM	09/22/2006 13:07		

This report may not be reproduced except in full.



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 3 OF 15

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6i19003 - General Prepa	ration									
QC SAMPLE: Duplicate (6/19003-DUP1)			Source: 6091	1811-01	Prepared 8	& Analyzed	1: 09/19/06	<u> </u>		
pH	9.95		SU		9.95			0.00	10	
TEMPERATURE (C)	11.1		**		11.0			0.905	200	
QC SAMPLE: Reference (6l19003-SRM1)					Prepared 8	& Analyzed	1: 09/19/06			
рН	5.01		SU	5.00		100	97.5-102			
QC SAMPLE: Reference (6I19003-SRM2)					Prepared 8	& Analyzed	1: 09/19/06			
рН	8.02		SU	8.00		100	97.5-102			
BATCH: Batch 6I22004 - General Prepa	ration									
QC SAMPLE: Blank (6l22004-BLK1)					Prepared 8	& Analyzed	i: 09/22/06			
CYANIDE, TOTAL	ND	0.0030	mg/L							·
QC SAMPLE: Duplicate (6I22004-DUP1)			Source: 6091	1 <u>81</u> 1-01	Prepared &	& Analyzed	1: 09/22/06			
CYANIDE, TOTAL	ND	0.0030	mg/L		ND				20	
QC SAMPLE: Reference (6l22004-SRM1)					Prepared 8	& Analyzec	1: 09/22/06			
CYANIDE, TOTAL	0.0828	0.0030	mg/L	0.0800	· · · · · · · · · · · · · · · · · · ·	104	90-110			
BATCH: Batch 6l26009 - Water Extracti	on							_		
QC SAMPLE: Blank (6l26009-BLK1)					Prepared 8	& Analyzed	l: 09/26/06			
NONPOLAR OIL & GREASE	ND	2.0	mg/L		··					
TOTAL OIL AND GREASE	ND	2.0	"							

This report may not be reproduced except in full.



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 4 OF 15

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l26009 - Water Extr	action	-								
QC SAMPLE: LCS (6126009-BS1)					Prepared	& Analyzed	I: 09/26/06			
NONPOLAR OIL & GREASE	16.5	2.0	mg/L	20.4		80.9	66-114			
TOTAL OIL AND GREASE	38.3	2.0	н	40.5		94.6	79-114			
QC SAMPLE: LCS Dup (6126009-BSD1	1)				Prepared -	& Analyzed	1: 09/26/06			
NONPOLAR OIL & GREASE	17.2	2.0	mg/L	20.4		84.3	66-114	4.15	24	
TOTAL OIL AND GREASE	39.2	2.0	'n	40.5		96.8	79-114	2.32	18	



REPORT DATE: 09/29/06 07:41 REPORT NUMBER:6091811 PAGE: 5 OF 15

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	:h 6l28014 - ***Metals Prep	***									
QC SAMPLE:	Blank (6I28014-BLK1)					Prepared 8	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB1)				Prepared 8	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB2)	_			Prepared 8	& Analyzed	: 09/28/06			
MERCURY	···	ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB3)				Prepared 8	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (6I28014-SRM1)					Prepared 8	& Analyzed	: 09/28/06			
MERCURY		0.00023	0.000050	mg/L	0.00020		115	90-110			_
QC SAMPLE:	Reference (6I28014-SRM2)					Prepared 8	& Analyzed	: 09/28/06			
MERCURY		0.00021	0.000050	mg/L	0.00020		105	90-110		· · · · · · · · · · · · · · · · · · ·	
QC SAMPLE:	Reference (6l28014-SRM3)					Prepared 8	<u>& A</u> nalyzed	: 09/28/06			
MERCURY		0.00019	0.000050	mg/L	0.00020		95.0	90-110			



REPORT DATE: 09/29/06 07:41 REPORT NUMBER:6091811 PAGE: 6 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	:h 6l21003 - ***Metals	Prep***								,,,	
QC SAMPLE:	Blank (6121003-BLK1)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003	11							
CHROMIUM		ND	0.004	11							
COPPER		ND	0.004	n							
LEAD		ND	0.004	"							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (612	1003-CCB1)				Prepared of	& Analyzed	: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003								
CHROMIUM		ND	0.004	**							
COPPER		ND	0.004	**							
LEAD		ND	0.004								
SELENIUM		ND	0.090	11							
QC SAMPLE:	Calibration Blank (612	1003-CCB2)				Prepared 6	& Analyzed	: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004								
COPPER		ND	0.004								
LEAD		ND	0.004								
SELENIUM		ND	0.090	11							
QC SAMPLE:	Calibration Blank (612	1003-CCB3)				Prepared	& Analyzed	: 09/21/06			
ARSENIC		ND	0.027	mg/L			– ****				
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004	10							
COPPER		ND	0.004	n n							
LEAD		ND	0.004	п							
SELENIUM		ND	0.090	"							



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 7 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6l21003 - ***Metals Prep	***			_						
QC SAMPLE:	Reference (6I21003-SRM1)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		0.924	0.027	mg/L	1.00		92.4	85-115			
CADMIUM		0.951	0.003	10	1.00		95.1	85-115			
CHROMIUM		0.957	0.004	H	1.00		95.7	85-115			
COPPER		0.970	0.004	11	1.00		97.0	85-115			
LEAD		0.955	0.004	ш	1.00		95.5	85-115			
SELENIUM		0.909	0.090	н	1.00		90.9	85-115			
QC SAMPLE:	Reference (6I21003-SRM2)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		0.854	0.027	mg/L	1.00		85.4	85-115			
CADMIUM		0.897	0.003	"	1.00		89.7	85-115			
CHROMIUM		0.926	0.004	11	1.00		92.6	85-115			
COPPER		0.958	0.004	n	1.00		95.8	85-115			
LEAD		0.906	0.004	u	1.00		90.6	85-115			
SELENIUM		0.852	0.090		1.00		85.2	85-115			
QC SAMPLE:	Reference (6I21003-SRM3)					Prepared a	& Analyzed	: 09/21/06			
ARSENIC		0.921	0.027	mg/L	1.00		92.1	85-115			
CADMIUM		0.920	0.003	n	1.00		92.0	85-115			
CHROMIUM		0.942	0.004	"	1.00		94.2	85-115			
COPPER		0.957	0.004	n	1.00		95.7	85-115			
LEAD		0.937	0.004	"	1.00		93.7	85-115			
SELENIUM		0.886	0.090	n	1.00		88.6	85-115			
BATCH: Batc	h 6l21008 - ***Metals Prep)***			_						
QC SAMPLE:	Blank (6l21008-BLK1)					Prepared a	& Analyzed	: 09/21/06			
SILVER		ND	0.009	mg/L							



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 8 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte F	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6l21008 - ***Metals Prep**			•							
QC SAMPLE:	Calibration Blank (6121008-CC	B1)				Prepared a	& Analyzed:	09/21/06			
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (6121008-CC	B2)				Prepared 8	& Analyzed:	09/21/06			
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (6121008-CC	B3)				Prenared 8	& Analyzed:	09/21/06			
SILVER		ND	0.009	mg/L		, lopalou		00/2 // 00			
QC SAMPLE:	Reference (6I21008-SRM1)			•		Prepared 2	& Analyzed:	00/21/06			
SILVER	Kelerence (0121000-31(WT)	0.514	0.009	mg/L	0.500	r repared t	103	85-115			
	Defense (Clodon ODMO)	0.011	0.000	mg/L	0.000	D					
QC SAMPLE: SILVER	Reference (6l21008-SRM2)	0.521	0.009		0.500	Prepared a	& Analyzed: 104	85-115			
		0.521	0.009	mg/L	0.500						
QC SAMPLE:	Reference (6l21008-SRM3)	*				Prepared 8	& Analyzed:				
SILVER		0.523	0.009	mg/L	0.500		105	85-115			
BATCH: Batc	h 6l22001 - ***Metals Prep***	•									
QC SAMPLE:	Blank (6122001-BLK1)					Prepared 8	& Analyzed:	09/22/06			
ANTIMONY		ND	0.027	mg/L							
COBALT		ND	0.0090								
MOLYBDENUM		ND	0.007								
NICKEL		ND	0.018	"							
ZINC		ND	0.018	"							
QC SAMPLE:	Calibration Blank (6l22001-CC	B1)				Prepared 8	& Analyzed:	09/22/06			
ANTIMONY		ND	0.027	mg/L							
COBALT		ND	0.0090	"							
MOLYBDENUM		ND	0.007	"							
NICKEL		ND	0.018	"							
ZINC		ND	0.018	"							



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 9 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6l22001 - ***Metals Pr	ep***									
QC SAMPLE:	Calibration Blank (612200	1-CCB2)				Prepared (& Analyzed	1: 09/22/06			
ANTIMONY		ND	0.027	mg/L							
COBALT		ND	0.0090								
MOLYBDENUM		ND	0.007	n							
NICKEL		ND	0.018	**							
ZINC		ND	0.018	"							
QC SAMPLE:	Reference (6l22001-SRM1)				Prepared 8	& Analyzed	: 09/22/06			
ANTIMONY		0.897	0.027	mg/L	1.00		89.7	85-115			
COBALT		0.931	0.0090	"	1.00		93.1	85-115			
MOLYBDENUM		0.930	0.007	**	1.00		93.0	85-115			
NICKEL		0.926	0.018	**	1.00		92.6	85-115			
ZINC		0.887	0.018	**	1.00		88.7	85-115			
QC SAMPLE:	Reference (6l22001-SRM2	<u>'</u>)				Prepared a	& Analyzed	: 09/22/06			
ANTIMONY		0.855	0.027	mg/L	1.00		85.5	85-115			
COBALT		0.899	0.0090		1.00		89.9	85-115			
MOLYBDENUM		0.879	0.007	"	1.00		87.9	85-115			
NICKEL		0.881	0.018	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00		88.1	85-115			
ZINC		0.875	0.018	n	1.00		87.5	85-115			
BATCH: Batc	h 6l25002 - ***Metals Pre	ep***									
QC SAMPLE:	Blank (6125002-BLK1)					Prepared 8	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L			· · · · · · · · · · · · · · · · · · ·				
QC SAMPLE:	Calibration Blank (612500)	2-CCB1)				Prepared 8	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L							



REPORT DATE: 09/29/06 07:41 REPORT NUMBER:6091811 PAGE: 10 OF 15

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample/Analyte		Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD .	RPD Limit	Notes
BATCH: Batc	h 6l25002 - ***Metals Prep	***								_	
QC SAMPLE:	Calibration Blank (6125002-0	CB2)				Prepared 8	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (6I25002-SRM1)					Prepared 8	& Analyzed	: 09/25/06		_	
TIN		0.868	0.036	mg/L	1.00		86.8	85-115			
QC SAMPLE:	Reference (6125002-SRM2)					Prepared 8	& Analyzed	: 09/25/06			
TIN		0.961	0.036	mg/L	1.00		96.1	90-115			
BATCH: Batc	h 6l25007 - ***Metals Prep	***									<u>.</u>
QC SAMPLE:	Blank (6l25007-BLK1)			Prepared 8	& Analyzed	: 09/25/06					
TITANIUM		ND	0.045	mg/L							
VANADIUM		ND	0.018	"							
QC SAMPLE:	Calibration Blank (6125007-0	CB1)				Prepared 8	& Analyzed	: 09/25/06			
TITANIUM		ND	0.045	mg/L							
VANADIUM		ND	0.018	"							
QC SAMPLE:	Calibration Blank (6125007-0	CB2)				Prepared &	& Analyzed	: 09/25/06			
TITANIUM		ND	0.045	mg/L							
VANADIUM		ND	0.018	"							
QC SAMPLE:	Reference (6I25007-SRM1)					Prepared 8	& Analyzed	: 09/25/06			
TITANIUM		0.928	0.045	mg/L	1.00		92.8	85-115			
VANADIUM		0.918	0.018	h	1.00		91.8	85-115			
QC SAMPLE:	Reference (6I25007-SRM2)					Prepared 8	& Analyzed	: 09/25/06			
TITANIUM		0.906	0.045	mg/L	1.00		90.6	85-115			
VANADIUM		0.918	0.018	**	1.00		91.8	85-115			



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 11 OF 15

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6/26003 - Volatiles										
QC SAMPLE: Calibration Blank (612600	3-CCB1)				Prepared 8	& Analyzed	: 09/26/06			
ACRYLONITRILE	ND	0.0100	mg/L	-						
CHLOROBENZENÉ	ND	0.0005	"							
CHLOROFORM	ND	0.0005	н							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005								
Surrogate: Dibromofluoromethane	0.008280		и	0.00809		102	50-150			
Surrogate: Fluorobenzene	0.006030		"	0.00809		74.5	50-150			
Surrogate: Chlorobenzene-d5	0.007650		11	0.00809		94.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007150		n	0.00809		88.3	50-150			
QC SAMPLE: Calibration Blank (612600	3-CCB2)			_	Prepared &	& Analyzed	: 09/26/06			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	н							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	'n							
Surrogate: Dibromofluoromethane	0.008500		"	0.00809		105	50-150			
Surrogate: Fluorobenzene	0.007810		"	ō.00809		96.5	50-150			
Surrogate: Chlorobenzene-d5	0.007580		n	0.00809		93.6	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007180		,,	0.00809		88.7	50-150			
QC SAMPLE: Reference (6I26003-SRM	1)				Prepared &	& Analyzed	: 09/26/06			
CHLOROBENZENE	0.008020	0.0005	mg/L	0.00809		99.1	50-150			
CHLOROFORM	0.008920	0.0005	"	0.00809		110	50-150			
1,2-DICHLOROETHANE .	0.008140	0.0005	· ·	0.00809		101	50-150			
TRICHLOROETHYLENE	0.004390	0.0005	"	0.00809		54.2	50-150			
Surrogate: Dibromofluoromethane	0.008280		"	0.00809		102	50-150			
Surrogate: Fluorobenzene	0.006390		u	0.00809		78.9	50-150			
Surrogate: Chlorobenzene-d5	0.009430		n	0.00809		116	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008060		**	0.00809		99.6	50-150			



REPORT DATE: 09/29/06 07:41 REPORT NUMBER:6091811 PAGE: 12 OF 15

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l26003 - Volatile	s						441			
QC SAMPLE: Reference (6126003-5	SRM2)				Prepared	& Analyzed	1: 09/26/06			
CHLOROBENZENE	0.008890	0.0005	mg/L	0.00809		110	50-150			
CHLOROFORM	0.009200	0.0005	11	0.00809		114	50-150			
1,2-DICHLOROETHANE	0.008120	0.0005	"	0.00809		100	50-150			
TRICHLOROETHYLENE	0.004820	0.0005	"	0.00809		59.5	50-150			
Surrogate: Dibromofluoromethane	0.008780		"	0.00809		108	50-150			
Surrogate: Fluorobenzene	0.007650		"	ō.00809		94.5	50-150			
Surrogate: Chlorobenzene-d5	0.01076		"	0.00809		133	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008030		"	0.00809		99.2	50-150			



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 13 OF 15

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l22009 - *** Organi	c Prep ***									
QC SAMPLE: LCS (6122009-BS1)					Prepared: 0	9/08/06	Analyzed:	09/21/06		
2,4-DINITROTOLUENE	ND	0.0122	mg/L	0.0102	·		50-150			SRM-2
NITROBENZENE	0.00791	0.00610	**	0.0102		77.5	50-150			
Surrogate: 2-Fluorobiphenyl	0.0594		"	0.0510		116	50-150			
Surrogate: Nitrobenzene-D5	0.0605		,,	0.0510		119	50-150			
Surrogate: p-terphenyl-D14	0.0467		n	0.0510		91.6	50-150			
QC SAMPLE: LCS Dup (6122009-BSD	1)				Prepared: 0	9/08/06	Analyzed:	09/21/06		
2,4-DINITROTOLUENE	ND	0.00820	mg/L	0.0102			50-150		20	QR-03
NITROBENZENE	0.00849	0.00410	"	0.0102		83.2	50-150	7.07	20	
Surrogate: 2-Fluorobiphenyl	0.0669		и	0.0510		131	50-150			
Surrogate: Nitrobenzene-D5	0.0486		,,	0.0510		95.3	50-150			
Surrogate: p-terphenyl-D14	0.0606		"	0.0510	-	119	50-150			
QC SAMPLE: Calibration Blank (6122)	009-CCB1)				Prepared: 0	9/16/06	Analyzed:	09/21/06		
2,4-DINITROTOLUENE	ND	1.96	mg/L							
NITROBENZENE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	23.8		u	20.0		119	50-150			
Surrogate: Nitrobenzene-D5	18.1		"	20.0		90.5	50-150			
Surrogate: p-terphenyl-D14	19.6		"	20.0		98.0	50-150			
QC SAMPLE: Calibration Blank (6122)	009-CCB2)				Prepared: 0	9/16/06	Analyzed:	09/22/06		
2,4-DINITROTOLUENE	NĐ	1.96	mg/L							
NITROBENZENE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	22.4		"	20.0		112	50-150			
Surrogate: Nitrobenzene-D5	19.1		"	20.0		95.5	50-150			
Surrogate: p-terphenyl-D14	20.4		"	20.0		102	50-150			
QC SAMPLE: Reference (6122009-SR	M1)				Prepared: 0	9/16/06	Analyzed:	09/21/06		
2,4-DINITROTOLUENE	9.61	1.96	mg/L	10.0		96.1	80-120			
NITROBENZENE	8.16	0.980	н,	10.0		81.6	80-120			
Surrogate: 2-Fluorobiphenyl	9.41		"	10.0		94.1	50-150			
Surrogate: Nitrobenzene-D5	8.76		"	10.0		87.6	50-150			
Surrogate: p-terphenyl-D14	9.55		"	10.0		95.5	50-150			

This report may not be reproduced except in full.



REPORT DATE:

09/29/06 07:41

REPORT NUMBER:6091811

PAGE: 14 OF 15

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l22009 - *** Organi	c Prep ***									_
QC SAMPLE: Reference (6122009-SR	M2)				Prepared:	09/16/06	Analyzed: (09/25/06	_	
2,4-DINITROTOLUENE	10.5	1.96	mg/L	10.0		105	80-120			
NITROBENZENE	9.84	0.980	п	10.0		98.4	80-120			
Surrogate: 2-Fluorobiphenyl	10.1		"	10.0		101	50-150			
Surrogate: Nitrobenzene-D5	11.0		"	10.0		110	50-150			
Surrogate: p-terphenyl-D14	9.55		"	10.0		95.5	50-150			
BATCH: Batch 6l25010 - *** Organi	c Prep ***									
QC SAMPLE: Calibration Blank (6125	010-CCB1)				Prepared:	09/16/06	Analyzed: (09/21/06		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	34.4		"	40.0		86.0	50-150			
Surrogate: 2,4,6-Tribromophenol	36.9		"	40.0		92.2	50-150			
QC SAMPLE: Calibration Blank (6125	010-CCB2)				Prepared:	09/16/06	Analyzed: (09/22/06		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	34.4		"	40.0		86.0	50-150			
Surrogate: 2,4,6-Tribromophenol	38.8		n	40.0		97.0	50-150			
QC SAMPLE: Reference (6/25010-SR	M1)				Prepared:	09/16/06	Analyzed: (09/21/06		
PENTACHLOROPHENOL	8.89	4.90	mg/L	10.0		88.9	80-120			
Surrogate: Phenol-d6	8.05		"	10.0		80.5	50-150			
Surrogate: 2,4,6-Tribromophenol	8.83		n	10.0		88.3	50-150			
QC SAMPLE: Reference (6l25010-SR	M2)				Prepared:	09/16/06	Analyzed: (09/25/06		
PENTACHLOROPHENOL	6.83	4.90	mg/L	10.0		68.3	80-120			SRM-2
Surrogate: Phenol-d6	9.00		"	10.0		90.0	50-150			
Surrogate: 2,4,6-Tribromophenol	9.47		"	10.0		94.7	50-150			

This report may not be reproduced except in full.



REPORT DATE: 09/29/06 07:41 REPORT NUMBER:6091811 PAGE: 15 OF 15

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 61250	11 - *** Organic Prep ***									
QC SAMPLE: LCS (6)	25011-BS1)				Prepared:	09/08/06	Analyzed: 0	9/21/06		
CHLORDANE	ND	0.00100	mg/L				50-150			SP-01
QC SAMPLE: _Calibra	tion Blank (6I25011-CCB1)				Prepared:	09/16/06	Analyzed: 0	9/21/06		
CHLORDANE	ND	0.653	mg/L							
QC SAMPLE: Calibra	tion Blank (6I25011-CCB2)				Prepared:	09/16/06	Analyzed: 0	9/22/06		
CHLORDANE	ND	0.653	mg/L			-				
Data Qualifiers:										_
Ouglifier Notes										

Qualifier	Notes
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
SP-01	Not present in this spike solution.
SRM-2	The recovery of this SRM was low. The batch was accepted on the basis of other reference materials in this batch.



Water Pollution Control Laboratory

6543 North Burlington Avenue Portland Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner

0343 North burnington Aver	v		s
W · C		RGE REQUEST FORM	1
Waste Generator Information		Permit Contact Information	
Source Name	Cascade General	Name	Lian Jewell
20012001		Address	Cascade General
Source Address	5555 N. Channel Ave.		5555 N. Channel Ave
	Portland, OR		
	97217		Portland, OR 97217
		Telephone Number	503/247-1806
		Facsimile Number	503/247-6050
Batch Information	CWTB	Email Address	ljewell@vigorindustrial.net
Batch Number:		Proposed Discharge	600,000 gal
		Volume:*	,
Request Date/Time:	9/29/2006 11:00am	Actual Discharge	
1		Volume:	
Date Proposed:	9/30/2006	Sampling Location:	Tank-7, BWTP
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
Detail the Process(es) Ge	enerating Wastewater & W	Vastewater Characteristi	ics
CWT-B	· ·		
-	stopped if heavy rain dev	-	eld below 150 gpm.
Are the analysis sheets, (QA/QC and chain of custo	dy attached? Y	ES or NO (circle one)
City Use Only			
Batch discharge approva		Date of Approval:	/ /2006
Approved By: Chris	s Collett		
D . 1 D' 1 D . 1			
Batch Discharge Denied	Due to the Following:		
L certify under pena	alty of law that this document a	and all attachments were pre	enared under my direction or
	rdance with a system designed		
evaluate the informa	ation submitted. Based on my	inquiry of the person or pers	sons who manage the system,
	ectly responsible for gathering		
	nd belief, true, accurate, and c		
for submitting false	information, including the poss	SIDILITY OF TIME and IMPRISONI	Hent for knowing violations.

Signature: Date:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE

SELF-MONITORING REPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

September 2006

For Industrial Sou	rce Control	Division	Use	Only
--------------------	-------------	----------	-----	------

Org 2159

Date Postmarked/Received

Date Entered

Entered By:

Comments:

SAMPLE DATE	POINT OF C	COMPLIANCE	SA	MPLE TYPE			
9/18/06	CV	VT2B		GRAB			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA				MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	15.0 mg/L		2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	5.3 mg/L		2.0	110 mg/L	N/A	
Cyanide	SM 4500	ND		0.003	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND		1.0	4.0 mg/L	N/A	
pH	EPA 150.1	8.95 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND		0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND		0.0124	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND		0.010	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND		0.0062	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND		0.0062	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND		0.0040	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND		0.0005	0.2 mg/L	N/A	
Chloroform	EPA 624	0.0013 mg/	L	0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND		0.0062	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND		0.0062	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND		0.0062	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND		0.0062	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND		0.0310	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND		0.0005	0.2 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAN	IPLE TYPE			
9/18/06	CV	VT2B	COMPOSITE				
PARAMETER	ANALYSIS METHOD			MDL	LIN DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND		0.030	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	ND		0.030	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.087 mg/I		0.002	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	ND		0.003	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	0.005 mg	/L	0.005	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	0.026 mg/	L	0.010	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	0.032 mg/	L	0.005	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	0.009 mg/	L	0.005	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND		0.00005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	0.31 mg/I		0.005	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	0.181 mg/I		0.02	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	ND		0.1	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND		0.010	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND		0.040	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	0.16 mg/I		0.020	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	



CLIENT: Cascade General

ATTN: Bob Collinson

P.O. Box 4367 Portland OR, 97208 PROJECT NAME: Wastewater Disch Permit Test -A Subcat

В

PROJECT NUMBER: 85806

PHONE: (503) 247-1634

FAX: (503) 247-1680

SUBMITTED: 09/18/06 16:00

REPORT DATE: 09/29/06 07:56

REPORT NUMBER: 6091810

PAGE: 1 OF 18

CISAMPLE	CLIENTS ID#		DAT	E TIME	MATRIX					
6091810-01	T-7-9-18		09/1	09/18/2006 1400 Water						
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES		
6091810-01	SAMPLE ID: T-7-9-	-18								
General Bench	Analysis									
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	ND	mg/L	0.0030	DAU	09/22/2006 13:51			
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	5.3	mg/L	2.0	JRW	09/26/2006 13:34			
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	15.0	mg/L	2.0	JRW	09/26/2006 13:34			
PH	EPA 150.1/9040	рН	8.95	SU		DAU	09/19/2006 08:28			
		TEMPERATURE (C)	11.5	SU						
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	DAU	09/22/2006 13:50			
Total Mercury b	y Cold Vapor Atomi	c Fluorescence								
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEL	09/28/2006 14:14			
Total Metals by	Inductively Coupled	l Plasma								
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.030	KEL	09/22/2006 08:12			
ARSENIC - ICP		ARSENIC	ND	mg/L	0.030	KEL	09/21/2006 08:12			
BARIUM - ICP		BARIUM	0.087	mg/L	0.002	KEL	09/21/2006 10:04			
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	09/21/2006 08:12			
CHROMIUM - ICP		CHROMIUM	0.005	mg/L	0.005	KEL	09/21/2006 08:12			
COBALT - ICP		COBALT	0.026	mg/L	0.010	KEL	09/22/2006 08:12			
COPPER - ICP		COPPER	0.032	mg/L	0.005	KEL	09/21/2006 08:12			
LEAD - ICP		LEAD	0.009	mg/L	0.005	KEL	09/21/2006 08:12			
MOLYBDENUM -		MOLYBDENUM	0.31	mg/L	0.008	KEL	09/22/2006 08:12			
NICKEL - ICP		NICKEL	0.181	mg/L	0.020	KEL	09/22/2006 08:12			
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	09/21/2006 08:12			
SILVER - ICP		SILVER	ND	mg/L	0.010	KEL	09/21/2006 10:04	,		
TIN - ICP		TIN	ND	mg/L	0.040	KEL	09/25/2006 08:17			
ZINC - ICP		ZINC	0.16	mg/L	0.020	KEL	09/22/2006 08:12	,,,,,		
Volatile Organic	s by Gas Chromato	graphy/Mass Spectroscopy								
VOC 624 Extended	•	ACRYLONITRILE	ND	mg/L	0.0100	JRW	09/26/2006 10:16			

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	: 09/29/06 07:5	6 REPORT N	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SE: 2 OF 18				
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS UNITS		DETECTION LIMIT	TECH	DATE/TIME	NOTE
6091810-01	SAMPLE ID: T-7-9-	18						
olatile Organics	by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	CHLOROBENZENE	ND	mg/L	0.0005	JRW	09/26/2006 10:16	
		CHLOROFORM	0.0013	mg/L	0.0005			
		1,2-DICHLOROETHANE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	96.6 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	81.2 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	81.0 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	101 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chro	omatography/Mass Spectroscopy						
ACID SEMIVOLS	EPA 625	2-CHLOROPHENOL	ND	mg/L	0.00620	DM	09/22/2006 00:14	
		P-CHLORO-M-CRESOL	ND	mg/L	0.00620			
		2,4-DICHLOROPHENOL	ND	mg/L	0.00620			
		2,4-DIMETHYLPHENOL	ND	mg/L	0.00620			
		2,4-DINITROPHENOL	ND	mg/L	0.00620			
		2-NITROPHENOL	ND	mg/L	0.00620			
		4-NITROPHENOL	ND	mg/L	0.00620			
		PHENOL	ND	mg/L	0.00620			
		PENTACHLOROPHENOL	ND	mg/L	0.0310			
		2,4,5-TRICHLOROPHENOL	ND	mg/L	0.00620			
		2,4,6-TRICHLOROPHENOL	ND	mg/L	0.00620			
		4,6-DINITRO-O-CRESOL	ND	mg/L	0.0310			
		Surrogate: 2,4,6-Tribromophenol	61.4 %	%RECOVERY	50-150			
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	ND	mg/L	0.00620	DM	09/22/2006 00:14	
		CARBAZOLE	ND	mg/L	0.00620			
		N-DECANE	ND	mg/L	0.00620			
		DIBENZO(a,h)ANTHRACENE	ND	mg/L	0.00620			
		3,3-DICHLOROBENZIDINE	ND	mg/L	0.0124			
		1,2-DICHLOROBENZENE	ND	mg/L	0.00620			
		1,3-DICHLOROBENZENE	ND	mg/L	0.00620			
		1,4-DICHLOROBENZENE	ND	mg/L	0.00620			
		DIETHYL PHTHALATE	ND	mg/L	0.00620			
		DIMETHYL PHTHALATE	ND	mg/L	0.00620			
		DI-N-BUTYL PHTHALATE	ND	mg/L	0.00620			
		DI-N-OCTYL PHTHALATE	ND	mg/L	0.00620			
		2,4-DINITROTOLUENE	ND	mg/L	0.0124			
		1,2-DIPHENYLHYDRAZINE (as AZOBENZENE)	ND	mg/L	0.00620			
		FLUORANTHENE	ND	mg/L	0.00620			
		FLUORENE	ND	mg/L	0.00620			
		HEXACHLOROBENZENE	ND	mg/L	0.00620			
		HEXACHLOROBUTADIENE	ND	mg/L	0.00620			
		HEXACHLOROCYCLOPENTADIENE	ND	mg/L	0.0310			
		HEXACHLOROETHANE	ND	mg/L	0.00620			
		INDENO(1,2,3-cd)PYRENE	ND	mg/L	0.00620			
		ISOPHORONE	ND	mg/L	0.00620			
		NAPHTHALENE	0.0390	mg/L	0.00620			
		NITROBENZENE	ND	mg/L	0.00620			

This report may not be reproduced except in full.



REPORT DATE	09/29/06 07:56	REPORT I		PAGE: 3 OF 18				
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6091810-01	SAMPLE ID: T-7-9-18							
Semi-Volatile Or	ganics by Gas Chrom	atography/Mass Spectroscopy						
B/N SEMIVOL 625	EPA 625	N-NITROSODIMETHYLAMINE	ND	mg/L	0.00620	DM	09/22/2006 00:14	
		N-NITROSODIPHENYLAMINE	ND	mg/L	0.00620			
		N-NITROSO-DI-N-PROPYLAMINE	ND	mg/L	0.00620			
		N-OCTADECANE	ND	mg/L	0.00620			
		PHENANTHRENE	ND	mg/L	0.00620			
		PYRENE	ND	mg/L	0.00620			
		1,2,4-TRICHLOROBENZENE	ND	mg/L	0.00620			
		Surrogate: 2-Fluorobiphenyl	59.4 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	88.0 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	68.4 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chrom	atography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0031	DM	09/25/2006 10:13	
		AROCHLOR 1221	ND	mg/L	0.0031			
		AROCHLOR 1232	ND	mg/L	0.0031			
		AROCHLOR 1242	ND	mg/L	0.0031			
		AROCHLOR 1248	ND	mg/L	0.0031			
		AROCHLOR 1254	ND	mg/L	0.0031			
		AROCHLOR 1260	ND	mg/L	0.0031			
PESTICIDES 625	EPA 625	CHLORDANE	ND	mg/L	0.00400	DM	09/22/2006 00:14	



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 4 OF 18

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l19003 - General Prepa	aration									
QC SAMPLE: Duplicate (6l19003-DUP1)			Source: 609	1811-01	Prepared &	& Analyzed	I: 09/19/06			
pH	9.95		SU		9.95			0.00	10	
TEMPERATURE (C)	11.1		"		11.0			0.905	200	
QC SAMPLE: Reference (6l19003-SRM1)					Prepared 8	& Analyzed	I: 09/19/06			
рН	5.01		SU	5.00		100	97.5-102			
QC SAMPLE: Reference (6I19003-SRM2)					Prepared 8	& Analyzed	1: 09/19/06			
рН	8.02		SU	8.00		100	97.5-102			_
BATCH: Batch 6l22004 - General Prepa	aration									
QC SAMPLE: Blank (6l22004-BLK1)					Prepared 8	& Analyzed	1: 09/22/06			
CYANIDE, TOTAL	ND	0.0030	mg/L							
QC SAMPLE: Duplicate (6l22004-DUP1)			Source: 609	1811-01	Prepared 8	& Analyzed	1: 09/22/06			
CYANIDE, TOTAL	ND	0.0030	mg/L		ND				20	
QC SAMPLE: Reference (6l22004-SRM1)					Prepared 8	& Analyzed	1: 09/22/06			
CYANIDE, TOTAL	0.0828	0.0030	mg/L	0.0800		104	90-110			
BATCH: Batch 6l26009 - Water Extract	ion									
QC SAMPLE: Blank (6l26009-BLK1)					Prepared 8	& Analyzed	I: 09/26/06			
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
TOTAL OIL AND GREASE	ND	2.0	"							



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 5 OF 18

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l26009 - Water Extra	ction									
QC SAMPLE: LCS (6126009-BS1)					Prepared	& Analyzed	: 09/26/06			
NONPOLAR OIL & GREASE	16.5	2.0	mg/L	20.4		80.9	66-114			
TOTAL OIL AND GREASE	38.3	2.0	"	40.5		94.6	79-114			
QC SAMPLE: LCS Dup (6126009-BSD1)					Prepared	& Analyzed	: 09/26/06			
NONPOLAR OIL & GREASE	17.2	2.0	mg/L	20.4		84.3	66-114	4.15	24	
TOTAL OIL AND GREASE	39.2	2.0	"	40.5		96.8	79-114	2.32	18	



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 6 OF 18

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 6l28014 - ***Metals Prep)***									
QC SAMPLE:	Blank (6l28014-BLK1)					Prepared a	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB1)				Prepared &	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB2)	·			Prepared 6	& Analyzed	09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6128014-0	CCB3)				Prepared 8	& Analyzed	: 09/28/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (6l28014-SRM1)					Prepared 8	& Analyzed	: 09/28/06			
MERCURY		0.00023	0.000050	mg/L	0.00020		115	90-110			
QC SAMPLE:	Reference (6l28014-SRM2)					Prepared 8	& Analyzed	: 09/28/06	·		
MERCURY		0.00021	0.000050	mg/L	0.00020		105	90-110			
QC SAMPLE:	Reference (6l28014-SRM3)			•		Prepared 8	& Analyzed	: 09/28/06			
MERCURY		0.00019	0.000050	mg/L	0.00020		95.0	90-110			



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 7 OF 18

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	ch 6l21003 - ***Metals Pi	rep***									
QC SAMPLE:	Blank (6l21003-BLK1)					Prepared	& Analyzed	i: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003	n							
CHROMIUM	•	ND	0.004	n							
COPPER		ND	0.004	n							
LEAD		ND	0.004	n n							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (612100	3-CCB1)				Prepared	& Analyzed	I: 09/21/06			
ARSENIC		ND	0.027	mg/L							_
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004	**							
COPPER		ND	0.004								
LEAD		ND	0,004								
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (612100	3-CCB2)				Prepared	& Analyzed	1: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004	••							
COPPER		ND	0.004	"							
LEAD		ND	0.004	. "							
SELENIUM		ND	0.090	11							
QC SAMPLE:	Calibration Blank (612100	03-CCB3)				Prepared	& Analyzed	I: 09/21/06			
ARSENIC		ND	0.027	mg/L							
CADMIUM		ND	0.003	"							
CHROMIUM		ND	0.004	0							
COPPER		ND	0.004								
LEAD		ND	0.004	n							
SELENIUM		ND	0.090	н							

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 8 OF 18

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample/	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch	ո 6l21003 - ***Metals Preր)***									
QC SAMPLE:	Reference (6l21003-SRM1)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		0.924	0.027	mg/L	1.00		92.4	85-115			
CADMIUM		0.951	0.003	. 0	1.00		95.1	85-115			
CHROMIUM		0.957	0.004	11	1.00		95.7	85-115			
COPPER		0.970	0.004	11	1.00		97.0	85-115			
LEAD		0.955	0.004	n	1.00		95.5	85-115			
SELENIUM		0.909	0.090	ш	1.00		90.9	85-115			
QC SAMPLE:	Reference (6l21003-SRM2)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		0.854	0.027	mg/L	1.00		85.4	85-115			
CADMIUM		0.897	0.003	- 0	1.00		89.7	85-115			
CHROMIUM		0.926	0.004	**	1.00		92.6	85-115			
COPPER		0.958	0.004	**	1.00		95.8	85-115			
LEAD		0.906	0.004	**	1.00		90.6	85-115			
SELENIUM		0.852	0.090	**	1.00		85.2	85-115			
QC SAMPLE:	Reference (6I21003-SRM3)					Prepared	& Analyzed	: 09/21/06			
ARSENIC		0.921	0.027	mg/L	1.00		92.1	85-115			
CADMIUM		0.920	0.003	"	1.00		92.0	85-115			
CHROMIUM		0.942	0.004	"	1.00		94.2	85-115			
COPPER		0.957	0.004	**	1.00		95.7	85-115			
LEAD		0.937	0.004		1.00		93.7	85-115			
SELENIUM		0.886	0.090	"	1.00		88.6	85-115			
BATCH: Batch	ո 6l21008 - ***Metals Preբ)***									
QC SAMPLE:	Blank (6l21008-BLK1)					Prepared 6	& Analyzed	: 09/21/06			
BARIUM	·	ND	0.002	mg/L		·····					
SILVER		ND	0.009								



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 9 OF 18

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6l21008 - ***Metals	Prep***									
QC SAMPLE:	Calibration Blank (612	1008-CCB1)				Prepared 8	& Analyzed	: 09/21/06			
BARIUM SILVER		ND ND	0.002 0.009	mg/L "							
QC SAMPLE:	Calibration Blank (612	1008-CCB2)				Prepared 8	& Analyzed	: 09/21/06			
BARIUM SILVER		ND ND	0.002 0.009	mg/L "							
QC SAMPLE:	Calibration Blank (612	1008-CCB3)				Prepared 8	& Analyzed	09/21/06			
BARIUM SILVER		ND ND	0.002 0.009	mg/L "							
QC SAMPLE:	Reference (6l21008-S	RM1)				Prepared &	& Analyzed	: 09/21/06	****		
BARIUM SILVER		1.04 0.514	0.002 0.009	mg/L "	1.00 0.500		104 103	85-115 85-115			
QC SAMPLE:	Reference (6l21008-S	RM2)				Prepared 8	& Analyzed	: 09/21/06			
BARIUM SILVER	`	1.04 0.521	0.002 0.009	mg/L	1.00 0.500		104 104	85-115 85-115			Je 1
QC SAMPLE:	Reference (6121008-S	RM3)				Prepared 8	& Analyzed	09/21/06			
BARIUM SILVER		1.01 0.523	0.002 0.009	mg/L "	1.00 0.500		101 105	85-115 85-115			
BATCH: Batc	h 6l22001 - ***Metals	Prep***									
QC SAMPLE:	Blank (6l22001-BLK1)	<u> </u>				Prepared 8	& Analyzed	: 09/22/06			
ANTIMONY		ND	0.027	mg/L							
COBALT MOLYBDENUM		ND ND	0.0090 0.007	"							
NICKEL		ND	0.007	"							
ZINC		ND	0.018	"							



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 10 OF 18

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6l22001 - ***Metals Prep <u>***</u>									
QC SAMPLE:	Calibration Blank (6l22001-CCB1)				Prepared	& Analyzed	: 09/22/06			
ANTIMONY	ND	0.027	mg/L							
COBALT	ND	0.0090	D							
MOLYBDENUM	ND	0.007	D							
NICKEL	ND	0.018								
ZINC	ND	0.018	11							
QC SAMPLE:	Calibration Blank (6122001-CCB2)				Prepared	& Analyzed	: 09/22/06			
ANTIMONY	ND	0.027	mg/L							
COBALT	ND	0.0090	"							
MOLYBDENUM	ND	0.007	n							
NICKEL	ND	0.018	11							
ZINC	ND	0.018	**							
QC SAMPLE:	Reference (6I22001-SRM1)				Prepared	& Analyzed	: 09/22/06			
ANTIMONY	0.897	0.027	mg/L	1.00		89.7	85-115			
COBALT	0.931	0.0090	"	1.00		93.1	85-115			
MOLYBDENUM	0.930	0.007	**	1.00		93.0	85-115			
NICKEL	0.926	0.018	**	1.00		92.6	85-115			
ZINC	0.887	0.018	47	1.00		88.7	85-115			
QC SAMPLE:	Reference (6I22001-SRM2)				Prepared	& Analyzed	: 09/22/06			
ANTIMONY	0.855	0.027	mg/L	1.00		85.5	85-115			
COBALT	0.899	0.0090		1.00		89.9	85-115			
MOLYBDENUM	0.879	0.007	**	1.00		87.9	85-115			
NICKEL	0.881	0.018	**	1.00		88.1	85-115			
ZINC	0.875	0.018	"	1.00		87.5	85-115			



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 11 OF 18

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	h 6l25002 - ***Metals Prep*	***	· <u>·</u> ··								
QC SAMPLE:	Blank (6125002-BLK1)					Prepared	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6l25002-C	CB1)				Prepared	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6125002-C	CB2)				Prepared	& Analyzed	: 09/25/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (6l25002-SRM1)					Prepared	& Analyzed	: 09/25/06			
TIN		0.868	0.036	mg/L	1.00		86.8	85-115			
QC SAMPLE:	Reference (6l25002-SRM2)					Prepared	& Analyzed	: 09/25/06			
TIN		0.961	0.036	mg/L	1.00		96.1	90-115			



REPORT DATE: 09/29/06 07:56 REPORT NUMBER:6091810 PAGE: 12 OF 18

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6I26003 - Volatiles										
QC SAMPLE: Calibration Blank (6l2600)3-CCB1)				Prepared 6	& Analyzed	: 09/26/06			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	n							
CHLOROFORM	ND	0.0005	"							
1,2-DICHLOROETHANE	ND	0.0005	**							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.008280		"	0.00809		102	50-150			
Surrogate: Fluorobenzene	0.006030		"	Õ.00809		74.5	50-150			
Surrogate: Chlorobenzene-d5	0.007650		"	0.00809		94.5	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007150		"	ō.00809		88.3	50-150			
QC SAMPLE: Calibration Blank (612600)3-CCB2)			-	Prepared 8	& Analyzed	: 09/26/06			
ACRYLONITRILE	ND	0.0100	mg/L							
CHLOROBENZENE	ND	0.0005	"							
CHLOROFORM	ND	0.0005	n							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.008500		"	0.00809		105	50-150			
Surrogate: Fluorobenzene	0.007810		"	0.00809		96.5	50-150			
Surrogate: Chlorobenzene-d5	0.007580		n	0.00809		93.6	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.007180		"	0.00809		88.7	50-150			
QC SAMPLE: Reference (6126003-SRM	1)			-	Prepared 8	& Analyzed	: 09/26/06			
CHLOROBENZENE	0.008020	0.0005	mg/L	0.00809		99.1	50-150			
CHLOROFORM	0.008920	0.0005	"	0.00809		110	50-150			
1,2-DICHLOROETHANE	0.008140	0.0005	*	0.00809		101	50-150			
TRICHLOROETHYLENE	0.004390	0.0005	"	0.00809		54.2	50-150			
Surrogate: Dibromofluoromethane	0.008280		"	0.00809		102	50-150			
Surrogate: Fluorobenzene	0.006390		"	0.00809		78.9	50-150			
Surrogate: Chlorobenzene-d5	0.009430		"	ō.00809		116	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008060		"	0.00809		99.6	50-150			



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 13 OF 18

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l26003 - Volatiles										
QC SAMPLE: Reference (6126003-S	RM2)				Prepared a	& Analyzed	: 09/26/06			
CHLOROBENZENE	0.008890	0.0005	mg/L	0.00809		110	50-150			
CHLOROFORM	0.009200	,0.0005	H	0.00809		114	50-150			
1,2-DICHLOROETHANE	0.008120	0.0005	"	0.00809		100	50-150			
TRICHLOROETHYLENE	0.004820	0.0005		0.00809		59.5	50-150			
Surrogate: Dibromofluoromethane	0.008780		"	0.00809		108	50-150			
Surrogate: Fluorobenzene	0.007650		"	0.00809		94.5	50-150			
Surrogate: Chlorobenzene-d5	0.01076		"	0.00809		133	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008030		"	0.00809		99.2	50-150			



REPORT DATE: 09/29/06 07:56 REPORT NUMBER:6091810 PAGE: 14 OF 18

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l22009 - *** Organic	Prep ***									
QC SAMPLE: LCS (6122009-BS1)					Prepared: (09/08/06	Analyzed: 0	9/21/06		
BIS(2-ETHYLHEXYL)PHTHALATE	0.00635	0.00610	mg/L	0.0102		62.3	50-150			
CARBAZOLE	0.00697	0.00610		0.0153		45.6	50-150			SRM-2
N-DECANE	0.00784	0.00610		0.0102		76.9	50-150			
2,4-DINITROTOLUENE	ND	0.0122	и	0.0102			50-150			SRM-2
FLUORANTHENE	0.00753	0.00610	n	0.0102		73.8	50-150			
NITROBENZENE	0.00791	0.00610	"	0.0102		77.5	50-150			
N-OCTADECANE	0.0111	0.00610	n	0.0101		110	50-150			
Surrogate: 2-Fluorobiphenyl	0.0594		ü	0.0510		116	50-150			
Surrogate: Nitrobenzene-D5	0.0605		"	0.0510		119	50-150			
Surrogate: p-terphenyl-D14	0.0467		"	0.0510		91.6	50-150			
QC SAMPLE: LCS Dup (6122009-BSD1	1)				Prepared: (09/08/06	Analyzed: 0	9/21/06		
BIS(2-ETHYLHEXYL)PHTHALATE	0.0101	0.00410	mq/L	0.0102		99.0	50-150	45.6	20	
CARBAZOLE	0.00941	0.00410	"	0.0153		61.5	50-150	29.8	20	
N-DECANE	0.00866	0.00410	11	0.0102		84.9	50-150	9.94	20	
2,4-DINITROTOLUENE	ND	0.00820	"	0.0102			50-150		20	QR-03
FLUORANTHENE	0.00941	0.00410	п	0.0102		92.3	50-150	22.2	20	
NITROBENZENE	0.00849	0.00410	n n	0.0102		83.2	50-150	7.07	20	
N-OCTADECANE	0.0114	0.00410	11	0.0101		113	50-150	2.67	20	
Surrogate: 2-Fluorobiphenyl	0.0669		Į.	0.0510		131	50-150			
Surrogate: Nitrobenzene-D5	0.0486		"	0.0510		95.3	50-150			
Surrogate: p-terphenyl-D14	0.0606		"	0.0510		119	50-150			
QC SAMPLE: Calibration Blank (61220	09-CCB1)				Prepared: (09/16/06	Analyzed: 0	9/21/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	u u							
N-DECANE	ND	0.980	n							
2,4-DINITROTOLUENE	ND	1.96	"							
FLUORANTHENE	ND	0.980	ii ii							
NITROBENZENE	ND	0.980	11							
N-OCTADECANE	ND	0.980	11							
Surrogate: 2-Fluorobiphenyl	23.8		"	20.0		119	50-150			
Surrogate: Nitrobenzene-D5	18.1		"	20.0		90.5	50-150			
Surrogate: p-terphenyl-D14	19.6		"	20.0		98.0	50-150			



REPORT DATE: 0

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 15 OF 18

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l22009 - *** Organ	ic Prep ***									
QC SAMPLE: Calibration Blank (612)	2009-CCB2)				Prepared:	09/16/06	Analyzed: 0	9/22/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE	ND	0.980								
2,4-DINITROTOLUENE	ND	1.96	**							
FLUORANTHENE	ND	0.980	II.							
NITROBENZENE	ND	0.980								
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	22.4		n	20.0		112	50-150			
Surrogate: Nitrobenzene-D5	19.1		"	20.0		95.5	50-150			
Surrogate: p-terphenyl-D14	20.4		"	20.0		102	50-150			
QC SAMPLE: Reference (6122009-SF	RM1)				Prepared:	09/16/06	Analyzed: 0	9/21/06		
BIS(2-ETHYLHEXYL)PHTHALATE	9.83	0.980	mg/L	10.0		98.3	80-120			
CARBAZOLE	9.88	0.980		15.0		65.9	50-150			
N-DECANE	9.68	0.980	11	10.0		96.8	50-150			
2,4-DINITROTOLUENE	9.61	1.96	"	10.0		96.1	80-120			
FLUORANTHENE	9.82	0.980	***	10.0		98.2	80-120			
NITROBENZENE	8.16	0.980	**	10.0		81.6	80-120			
N-OCTADECANE	9.51	0.980		9.94		95.7	50-150			
Surrogate: 2-Fluorobiphenyl	9.41		"	10.0		94.1	50-150			
Surrogate: Nitrobenzene-D5	8.76		"	10.0		87.6	50-150			
Surrogate: p-terphenyl-D14	9.55		"	10.0		95.5	50-150			
QC SAMPLE: Reference (6122009-SF	RM2)				Prepared:	09/16/06	Analyzed: 0	9/25/06		
BIS(2-ETHYLHEXYL)PHTHALATE	9.92	0.980	mg/L	10.0		99.2	80-120			
CARBAZOLE	10.3	0.980	**	15.0		68.7	50-150			
N-DECANE	10.4	0.980	11	10.0		104	50-150			
2,4-DINITROTOLUENE	10.5	1.96	n	10.0		105	80-120			
FLUORANTHENE	10,1	0.980	**	10.0		101	80-120			
NITROBENZENE	9.84	0.980	**	10.0		98.4	80-120			
N-OCTADECANE	10.8	0.980	,,	9.94		109	50-150			
Surrogate: 2-Fluorobiphenyl	10.1		"	10.0		101	50-150		,	
Surrogate: Nitrobenzene-D5	11.0		"	10.0		110	50-150			
Surrogate: p-terphenyl-D14	9.55		"	10.0		95.5	50-150			

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 16 OF 18

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l25010 - *** Orga	nic Prep ***									
QC SAMPLE: Calibration Blank (61)	25010-CCB1)				Prepared: (09/16/06	Analyzed: 0	9/21/06		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	34.4		"	40.0		86.0	50-150			
Surrogate: 2,4,6-Tribromophenol	36.9		n	40.0		92.2	50-150			
QC SAMPLE: Calibration Blank (61)	25010-CCB2)				Prepared: (09/16/06	Analyzed: 0	9/22/06		
PENTACHLOROPHENOL	ND	4.90	mg/L							
Surrogate: Phenol-d6	34.4		"	40.0		86.0	50-150			
Surrogate: 2,4,6-Tribromophenol	38.8		"	40.0		97.0	50-150			
QC SAMPLE: Reference (6I25010-S	SRM1)				Prepared: (09/16/06	Analyzed: 0	9/21/06		
PENTACHLOROPHENOL	8.89	4.90	mg/L	10.0		88.9	80-120			
Surrogate: Phenol-d6	8.05		"	10.0		80.5	50-150			
Surrogate: 2,4,6-Tribromophenol	8.83		"	10.0		88.3	50-150			
QC SAMPLE: Reference (6I25010-S	SRM2)				Prepared: (09/16/06	Analyzed: 0	9/25/06		
PENTACHLOROPHENOL	6.83	4.90	mg/L	10.0		68.3	80-120			SRM-2
Surrogate: Phenol-d6	9.00		n n	10.0		90.0	50-150			
Surrogate: 2,4,6-Tribromophenol	9.47		· ·	10.0		94.7	50-150			

This report may not be reproduced except in full.

Authorized for Release By:Richard D. Reid - Laboratory Director



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 17 OF 18

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REG	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6l25009 - *** Organic I	Prep ***								
QC SAMPLE: LCS (6125009-BS1)					Prepared: 09/08/06	Analyzed:	09/25/06		
AROCHLOR 1248	0.00411	0.0030	mg/L	0.00510	80.	50-150			
QC SAMPLE: LCS Dup (6125009-BSD1)					Prepared: 09/08/06	Analyzed:	09/25/06		
AROCHLOR 1248	0.00523	0.0020	mg/L	0.00510	103	50-150	24.0	20	
QC SAMPLE: Calibration Blank (612500)	9-CCB1)				Prepared & Analyz	ed: 09/25/06			
AROCHLOR 1016	ND	0.49	mg/L						
AROCHLOR 1221	ND	0.49	"						
AROCHLOR 1232	ND	0.49	**						
AROCHLOR 1242	ND	0.49	"						
AROCHLOR 1248	ND	0.49	**						
AROCHLOR 1254	ND	0.49	"						
AROCHLOR 1260	ND	0.49	"						
QC SAMPLE: Calibration Blank (612500)	9-CCB2)				Prepared & Analyz	ed: 09/25/06			
AROCHLOR 1016	ND	0.49	mg/L						
AROCHLOR 1221	ND	0.49							
AROCHLOR 1232	ND	0.49	"						
AROCHLOR 1242	ND	0.49	n						
AROCHLOR 1248	ND	0.49	п						
AROCHLOR 1254	ND	0.49							
AROCHLOR 1260	ND	0.49	"						
QC SAMPLE: Reference (6l25009-SRM1	l)				Prepared & Analyz	ed: 09/25/06			
AROCHLOR 1248	2.49	0.49	mg/L	2.50	99.6	50-150			
QC SAMPLE: Reference (6125009-SRM2	2)				Prepared & Analyz	ed: 09/25/06			
AROCHLOR 1248	2.38	0.49	mg/L	2.50	95.2	50-150			



REPORT DATE:

09/29/06 07:56

REPORT NUMBER:6091810

PAGE: 18 OF 18

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample	tch 6l25011 - *** Organic Prep *** LCS (6l25011-BS1) ND 0.00100 mg/L Calibration Blank (6l25011-CCB1) ND 0.653 mg/L Prepared: 09/08/06 Analyzed: 09/21/06 Analyzed: 09/21/06						Notes				
BATCH: Batc	h 6l25011 - *** Organic Prep ***										
QC SAMPLE:	LCS (6I25011-BS1)					Prepared:	09/08/06	Analyzed:	09/21/06		
CHLORDANE	NI	D	0.00100	mg/L				50-150			SP-01
QC SAMPLE:	Calibration Blank (6l25011-CCB1)					Prepared:	09/16/06	Analyzed:	09/21/06		
CHLORDANE	NI	D	0.653	mg/L							
QC SAMPLE:	Calibration Blank (6l25011-CCB2)					Prepared:	09/16/06	Analyzed:	09/22/06		
CHLORDANE	N	D	0.653	mg/L							
Data Qualifie	ers:										
Qualifier	Notes										_
QR-03	The RPD value for the sample dupl accepted based on LCS and/or LCS					eptance lin	nits due to	matrix inter	ference. Q	C batch	
SP-01	Not present in this spike solution.										_
SRM-2	The recovery of this SRM was low.	. The bate	ch was acc	epted on the	basis of	f other refe	rence mate	erials in this	batch.		_





Water Pollution Control Laboratory

6543 North Burlington Aven	ue, Portland, Oregon 97203-5	452 Dean Marriott, Direct	or Dan Saltzman, Commissioner
	BATCH DISCHAR	GE REQUEST FORM	
Waste Generator Information		Permit Contact	
g N	C 1 . C 1	Information	Charles Istad
Source Name	Cascade General	Name	Charles Isted
		Company Name	Cascade General
Source Address	5555 N. Channel Ave.	Address	5555 N. Channel Ave
	Portland, OR		
	97217		Portland, OR 97217
		Telephone Number	503/247-1959
		Facsimile Number	503/247-6050
Batch Information	CWTA	Email Address	cisted@vigorindustrial.net
Batch Number:		Proposed Discharge	60,000 gal
		Volume:*	
Request Date/Time:	10/13/08 08:30 A.M.	Actual Discharge	
		Volume:	
Date Proposed:	10/14/2008	Sampling Location:	T-7, BWTP
Duration of Discharge:	Start: 10/14//2008	Stop: 10/17/2008	Sampled? YES NO
Detail the Process(es) Ger	nerating Wastewater & Wa	astewater Characteristic	s
CWT-A	•		
Discharge flow will be st	opped if heavy rain deve	clops. Flow will be held	d below 50 gpm.
Are the analysis sheets, Q			S or NO (circle one)
, ,		-	· · · · · · · · · · · · · · · · · · ·
City Use Only			
Batch discharge approval:	YES or NO	Date of Approval:	/ /2008
Approved By: Biola		11	
Batch Discharge Denied l	Due to the Following:		
S	C		
H. M. H. W. H. L.			
I certify under penalt	y of law that this document an	d all attachments were prep	ared under my direction or

supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and benef, true, accurate, and complete. I am aware that there are significant penalties for submitting talse information, including the possibility of fine and imprisonment for knowing violations.

All self-monitoring reports (SMR) must include the following to be considered complete. For more detailed information regarding these items, please refer to the colored reference sheet. If you have any questions, please contact your permit manager for assistance.

Self Monitoring Report Check List:

Chain of Custody form
Analytical Results with Method Detection Limits (MDL)
QA/QC Results
Signed Signatory Certification Statement (Printed on bottom of SMR)
Completed Self Monitoring Report form

To assure prompt delivery, mail all monitoring results to:

Industrial Source Control Division Water Pollution Control Laboratory 6543 N. Burlington Avenue Portland, OR 97203-5452

Attn: Biola Cruse

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

September 2008

Date Postmarked/Received	Date Entered	
	Entered By:	
omments:		

Dry Dock Treatment Plant (CWT - A)

SAMPLE DATE	POINT OF O	COMPLIANCE	S.A	MPLE TYPE			
09-18-2008	CV	VT2A	C	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPOR' CONCENTE	Charles and hope on a street made of their	MDL	LIN DAILY	COMMENTS	
Antimony	EPA 200.8	ND	mg/L	0.00100 mg/L	0,249 mg/L	0.206 mg/L	
Arsenic (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.162 mg/L	0.104 mg/L	
Cadmium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.474 mg/L	0.0962 mg/L	
Chromium (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	5.0 mg/L	3.07 mg/L	
Cobalt (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.192 mg/L	0.124 mg/L	
Copper (Total)	EPA 200.8	0.0536	mg/L	0.00500 mg/L	3.7 mg/L	1.06 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.7 mg/L	0.283 mg/L	
Mercury (Total)	EPA 245.1	ND -	mg/L	0.0002 mg/L	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	1.4 mg/L	2.09 mg/L	
Nickel (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	2.8 mg/L	1.45 mg/L	
Selenium (Total)	EPA 200.8	0.00107	mg/L	0.00100 mg/L	0.6 mg/L	0.408 mg/L	
Silver (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.120 mg/L	0.0351 mg/L	
Tin (Total)	EPA 200.7	ND	mg/L	0.05 mg/L	0.409 mg/L	0.120 mg/L	
Titanium (Total)	EPA 200.7	ND	mg/L	0.02 mg/L	0.0947 mg/L	0.0618 mg/L	
Vanadium (Total)	EPA 200.8	ND	mg/L	0.00200 mg/L	0.218 mg/L	0.0662 mg/L	
Zinc (Total)	EPA 200.8	0.0529	mg/L	0.00400 mg/L	2.87 mg/L	0.641 mg/L	

SAMPLE DATE	POINT OF C	OMPLI	ANCE S	SAMPLE TYPE	The second secon		
09-18-2008	CV	VT2A		GRAB			
PARAMETER	ANALYSIS METHOD	TOTAL PROPERTY.	EPORTED ENTRATION	MDL	Samuel a commence of the same of the same of	IMITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) ¹	EPA 1664	7.3	mg/L	4.76 mg/L	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT	ND	mg/L	4.76 mg/L	110 mg/L	N/A	Local Limit
Cyanide (Total)	EPA 335.2	ND	mg/L	0.005 mg/L	1.2 mg/L	178 mg/L	
pH	EPA 150.1	10.3	pH Units		5,0 - 11.5	N/A	Local Limit

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Much Italy Date: 10-13-08

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Friday, October 10, 2008

Lian Jewell VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'A' / 1-000-0002-100

Enclosed are the results of analyses for work order <u>A809188</u>, which was received by the laboratory on 9/18/2008 at 2:12:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-17-09-18-08 Sub Cat 'A'	A809188-01	Water	09/18/08 11:00	09/18/08 14:12
T-17 9-30-08	A809188-02	Water	09/30/08 13:30	09/18/08 14:12

Apex Laboratories

Danme | June

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

ANALYTICAL SAMPLE RESULTS

		Purgea	ble Organic	Compounds by	EPA 624			
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-17 9-30-08 (A809188-02)			Matrix: W	ater				
Acrylonitrile	ND		0.00100	mg/L	1	10/02/08 12:33	EPA 624	
Chlorobenzene	ND		0.000500	II.	n	16	•r	
Chloroform	ND		0.00200	л	п	17	17	
1,2-Dichloroethane (EDC)	ND		0.000500	,,	u	n	н	
Trichloroethene (TCE)	ND		0.000500	n	47	μ	,	
Surrogate: Dibromofluorometha	ane (Surr)	Reco	very: 100 %	Limits: 80-120 %	lt	н		
1,4-Difluorobenzene	(Surr)		100 %	Limits: 80-120 %	ir .	n	Ħ	
Toluene-d8 (Surr)			94 %	Limits: 80-120 %	H	n		
4-Bromofluorobenze	ne (Surr)		105 %	Limits: 80-120 %	н	n	μ	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

ANALYTICAL SAMPLE RESULTS

	Semivolatil	e Organic	Compoun	ds by EPA 625 N	lodified (S	SIM Analysis)		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
-17-09-18-08 Sub Cat 'A' (A809	9188-01)		Matrix: W	ater				
Bis(2-ethylhexyl)phthalate	ND		0.0584	mg/L	50	09/19/08 13:42	EPA 625 SIM	
Carbazole	ND		0.00467	н	n	н	н	
2,4-Dinitrotoluene	ND		0.0234	u		н	н	R-0
Decane	ND		0.0584	13	n	в	и	R-0
Fluoranthene	ND		0.00467	v	n	10	ti	
Nitrobenzene	ND		0.00467	n	n	14	u	
Octadecane	ND		0.0234	R	n	17	и	
Pentachlorophenol (PCP)	ND		0.0117	n	n	n	И	
Surrogate: Nitrobenzene-d5 (St	nr)	Rec	overy: 75 %	Limits: 35-120 %		и	· · ·	
2,4-Dibromophenol	(Surr)		23 %	Limits: 30-125 %	"	p p	n	J, S-0
2-Fluorobiphenyl (S	urr)		95 %	Limits: 45-120 %	n	n	п	
p-Terphenyl-d14 (St	ur)		85 %	Limits: 30-120 %	н	a	н	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 10/10/08 15:32

ANALYTICAL SAMPLE RESULTS

		Tot	tal Metals by E	PA 200.8 (K	CPMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-17-09-18-08 Sub Cat 'A'	(A809188-01)		Matrix: Water					
Antimony	ND		0.00100	mg/L	1	09/25/08 13:11	EPA 200,8	
Arsenic	ND		0.00100	n	u	Ħ	17	
Cadmium	ND		.00100	"	v	"	n	
Chromium	ND		0.00100	11	v.	u	n	
Cobalt	ND		0.00200	n	и	n		
Copper	0.0536	- American	0,00500	η	M	н	n	
Lead	ND		0.00100	и	•	*	н	
Molybdenum	ND		0.00200	n	19	n	n	
Nickel	ND		0.00100	n	19	19	11	
Selenium	0.00107		0.00100	n	v	•	11	
Silver	ND		0.00200	ır	n	v	n	
Zinc	0.0529		0.00400	п	н	n	n	
Vanadium	ND		0.00200	н	*	n	н	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N, Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

ANALYTICAL SAMPLE RESULTS

		Con	ventional Ch	emistry Para	meters			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-17-09-18-08 Sub Cat 'A' (A80918	8-01)	Matrix: Water						
HEM (Oil and Grease)	7.33		4.76	mg/L	1	09/29/08 09:47	EPA 1664	
SGT-HEM (Non-polar Material)	ND		4,76	*	II.	09/29/08 13:46	EPA 1664-SGT	
pН	10.3			pH Units	n	09/19/08 10:05	EPA 150.1]
pH Temperature	18.6			deg C	•	11	**	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	c Compou	nds by EP.	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100022 - EPA 5030B							Wat	ter				
Blank (8100022-BLK1)						Analyzed:	10/02/08 11	:01				
EPA 624												
Acrylonitrile	ND ·		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	II.	0							
Chloroform	ND		0.00200	,	v							
1,2-Dichloroethane (EDC)	ND		0.000500		if		_					
Trichloroethene (TCE)	ND		0.000500	,)1							
Surr: Dibromofluoromethane (Surr)		Rec	overy: 99 %	Limits:	80-120 %	Dil	ution: 1x					-
1,4-Difluorobenzene (Surr)			100 %		80-120 %		. "					
Toluene-d8 (Surr)			95 %		80-120 %		11					
4-Bromofluorobenzene (Surr)			112%		80-120 %		"					
LCS (8100022-BS1)						Analyzed: 1	10/02/08 10	:01				
EPA 624												
Acrylonitrile	0.0244		0.00100	mg/L	1	0.0200		122	70-130%	~~~		
Chlorobenzene	0.0204		0.000500	"	н	и		102	n			
Chloroform	0.0207		0.00200	Đ	"	b:		103	"			
1,2-Dichloroethane (EDC)	0.0218		0.000500	er er	11	n		109	•			
Trichloroethene (TCE)	0.0217		0.000500	34	15	H		108	n	****		
Surr: Dibromofluoromethane (Surr)		Rec	overy: 99 %	Limits:	80-120 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Surr)			99 %		80-120 %		"					
Toluene-d8 (Surr)			93 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			101 %		80-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatil	e Organic C	ompour	nds by EPA	4 625 Modi	fied (SIM	Analysis	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090225 - EPA 35100	;						Wat	ter				
Blank (8090225-BLK1)						Analyzed:	09/19/08 11	1:44				
EPA 625 SIM	···											
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	i							
Carbazole	ND		0.000100	п	n							
2,4-Dinitrotoluene	ND		0.000500	u	n							
Decane	ND		0.000500	h	19							
Fluoranthene	ND		0.000100	n	e							
Nitrobenzene	ND		0.000100	"	n							
Octadecane	ND		0.000500	n								
Pentachlorophenol (PCP)	ND		0.000250	•	н							
Surr: Nitrobenzene-d5 (Surr)		Rei	covery: 96%	Limits:	35-120 %	Dil	ution: Ix					
2,4-Dibromophenol (Surr)			87 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			95 %		45-120%		"					
p-Terphenyl-d14 (Surr)			92 %		30-120 %		**					
LCS (8090225-BS1)						Analyzed:	09/19/08 12	:07				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00451		0.00125	mg/L	1	0.00500		90	40-125%			
Carbazole	0.00611		0.000100	11	11	н		122	19			
2,4-Dinitrotoluene	0.00615		0.000500	"	"	н		123	9			
Decane	0.00535		0.000500	u	It	n		107	"			
Fluoranthene	0.00601		0.000100		и.	19		120	55-120%			
Nitrobenzene	0.00562		0,000100	н	n	V		112	40-125%			
Octadecane	0.00509		0.000500	н	Ħ	ıγ		102				
Pentachlorophenol (PCP)	0.00707		0.000250	n	n	m		141	40-120%			Q-0
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 100 %	Limits:	35-120 %	Dila	ution: 1x					
2,4-Dibromophenol (Surr)			103 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			97 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			101 %		30-120 %		"					
LCS Dup (8090225-BSD1)						Analyzed: ()9/19/08 12	:31				
EPA 625 SIM						,						
Bis(2-ethylhexyl)phthalate	0.00383		0.00125	mg/L	1	0.00500		77	40-125%	16	30%	
Carbazole	0.00543		0.000100		, 11	ŋ		109	11	12	30%	
2.4-Dinitrotoluene	0.00502		0.000500	n		13		100	**	20	30%	
-,	0,00004	-	0.00000					4 - 0		20		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	Organic Co	mpoun	ds by EPA	625 Modi	fied (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090225 - EPA 3510C							Wat	ter	·····			
LCS Dup (8090225-BSD1)						Analyzed:	09/19/08 12	::31				
Fluoranthene	0.00532		0.000100	mg/L	17	et		106	55-120%	12	30%	
Nitrobenzene	0.00509		0.000100	н	0	*		102	40-125%	10	30%	
Octadecane	0.00468		0.000500	19	12	P		94	*	9	30%	
Pentachlorophenol (PCP)	0.00681		0.000250	11	н	11		136	40-120%	4	30%	Q-08
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 91%	Limits:	35-120 %	Dil	ution: Ix					
2,4-Dibromophenol (Surr)			86 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			89 %		45-120 %		rr					
p-Terphenyl-d14 (Surr)			91%		30-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS)		·			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090274 - EPA 3015							Was	ter				
Blank (8090274-BLK1)						Analyzed: (09/24/08 17	7:36				
EPA 200,8												
Antimony	ND		0.00100	mg/L	1							
Arsenic	ND		0.00100	n	н							
Cadmium	ND		0.00100	n	n							
Chromium	ND		0.00100	1)	н							
Cobalt	ND		0.00200	v	**							
Copper	ИD		0.00500	II .	u							
Lead	ND		0.00100		lt.							
Molybdenum	ND		0.00200	, н	μ							
Nickel	ND		0.00100	'n	н							
Selenium	ND		0.00100	11	n						~~~	
Silver	ND		0.00200	17	n							
Zinc	ND	~	0.00400	e e	11							
Vanadium	ND		0.00200	н	e†							
LCS (8090274-BS1)						Analyzed: (09/24/08 17	:39				
EPA 200.8												
Antimony	0.0380		0.00100	mg/L	1	0.0278		137	85-115%	***		Q-08, Q-23
Arsenic	0.0566		0.00100	н	ч,_	0.0556	***	102	a			Q-23
Cadmium	0.0542		0.00100	p.	n	v		98	,,			
Chromium	0.0575		0.00100	19	и	n		103	11			
Cobalt	0.0573		0.00200	W	п	н		103	q			
Copper	0.0585		0.00500	"	19	н		105	17			
Lead	0.0566		0.00100	н	W	н		102	н			
Molybdenum	0.0580		0.00200	и	n	n		104	. "		~	
Nickel	0.0571		0.00100	n	b	ų		103	"			
Selenium	0.0292		0.00100	•		0.0278		105	19			
Silver	0.0296		0.00200	ti	n	и		107	v			
Zinc	0.0539		0.00400	n	71	0.0556		97	11			
Vanadium	0.0577		0.00200	n	ŧ	n		104	H			
Duplicate (8090274-DUP1)			Source: At	309188-01		Analyzed: 0	9/25/08 12	:45				
EPA 200.8												
Antimony	ND		0.00100	mg/L	1		ND				20%	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	00.8 (ICPM	S)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090274 - EPA 3015							Wat	er				
Duplicate (8090274-DUP1)			Source: A	809188-01		Analyzed:	: 09/25/08 12	:45				
Arsenic	ND		0.00100	mg/L	1)		ND		_		20%	-
Cadmium	ND		0.00100	11	11		ND				20%	
Chromium	ND		0.00100	ч):		ND				20%	
Cobalt	ND		0.00200	н			ND				20%	
Copper	0.0554		0,00500	n	,,		0.0536			3	20%	
Lead	ND		0.00100	11	n		ND				20%	
Molybdenum	ND		0.00200	0	0		ND				20%	
Nickel	ND		0.00100	n	n		ND				20%	
Selenium	0.00121		0.00100	**	и		0.00107			13	20%	
Silver	ND		0.00200	n	н		ND				20%	
Zinc	0.0550		0.00400	17	19		0.0529			4	20%	
Vanadium	ND		0.00200	O.	D		ND		***		20%	
Matrix Spike (8090274-MS1)			Source: A	809188-01		Analyzed:	09/25/08 12	:48				
EPA 200.8												
Antimony	0.0628		0.0100.0	mg/L	1	0.0278	ND	226	70-130%			Q-2
Arsenic	0.0572		0.00100	e ·	*	0.0556	0,000867	101	n			
Cadmium	0.0557		0.00100	41	n	н	ND	100	11			
Chromium	0.0588		0.00100	*		n	0.000589	105	u.			
Cobalt	0.0590		0.00200	n	19	31	ND	106	n			
Copper	0.115		0.00500	11	19	**	0.0536	110	н			
Lead	0.0602		0.00100	n	17	n	0.000822	107				
Molybdenum	0.0624		0.00200	м	11	*	ND	112	19	_		
Nickel	0.0595		0.00100	н	н	H	ND	107	19			
Selenium	0.0298		0.00100	н	н	0.0278	0.00107	103 .	n			
Silver	0.0290		0.00200	u	VI	IP	ND	105	R			
Zinc	0.107		0.00400	4	n	0.0556	0.0529	98				
Vanadium	0.0566		0.00200	и	Ħ	и	ND	102	11			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

· ·			Conve	entional Ch	emistr	y Parameter	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%RE	%REC C Limits	RPD	RPD Limit	Notes
Batch 8090229 - Method P	rep: Aq						Wa	ter				
Duplicate (8090229-DUP1)			Source: A	A809188-01		Analyzed: (09/19/08 10	0:07				
EPA 150.1												
pН	10,3			pH Units	1		10.3			0.00	10%	
pH Temperature	18.7			¥	tr		18.6			0.536	200%	
Reference (8090229-SRM1)						Analyzed: (99/19/08 09	9:46				
EPA 150.1												
pН	6.05			pH Units	1	6.00		101	8.333-101.66	9		
Reference (8090229-SRM2)						Analyzed: ()9/19/08 10):10				
EPA 150.1												
pН	8.04			pH Units	1	8.00		100	98.75-101.259	4		
Reference (8090229-SRM3)						Analyzed: (09/19/08 16	5:32				
EPA 150.1												
pH	6.06			pH Units	1	6.00		101	8.333-101.66	%		
Reference (8090229-SRM4)						Analyzed: (09/19/08 16	5:35				
EPA 150.1												
рН	8.01			pH Units	1	8.00		100	98.75-101.259	4		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional C	hemistry	/ Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dif.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090315 - EPA 1664							Wat	ter				
Blank (8090315-BLK1)						Analyzed: ()9/29/08 09	9:47				
EPA 1664							_					
HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8090315-BL _K 2)						Analyzed: (09/29/08 13	:46				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	ND		5.00	mg/L	1							
LCS (8090315-BS1)						Analyzed: (19/29/08 09	:47				
EPA 1664						<u>-</u>						_
HEM (Oil and Grease)	35.8			mg/L	1	40.0		90	78-114%			
LCS (8090315-BS2)						Analyzed: (9/29/08 13	:46				٠
EPA 1664-SGT						<u> </u>						
SGT-HEM (Non-polar Material)	17.1			mg/L	1	20.0		86	64-132%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'A'

Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 10/10/08 15:32

SAMPLE PREPARATION INFORMATION

	Pu	rgeable Organic Cor	npounds by EPA 624			
				Sample	Default	RL Prep Factor
Matrix	Method	Sampled	Prepared	muairmai	muarrida	ractor
Water	EPA 624	09/30/08 13:30	10/02/08 09:24	5mL/5mL	5mL/5mL	1.00
	Semivolatile Org	ganic Compounds by	/ EPA 625 Modified (S	IM Analysis)		
				Sample	Default	RL Prep
Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
		-	-			
Water	EPA 625 SIM	09/18/08 11:00	09/18/08 17:04	1070mL/5mL	1000mL/5mL	0.94
	Na.	Total Metals by EP	A 200.8 (ICPMS)			
				Sample	Default	RL Prep
Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
				*		
Water	EPA 200.8	09/18/08 11:00	09/23/08 14:42	45mL/50mL	45mL/50mL	1.00
		Conventional Chem	istry Parameters			
				Sample	Default	RL Prep
Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
		-				
Water	EPA 1664	09/18/08 11:00	09/26/08 09:56	1N/A/1N/A	1N/A/1mL	NA
Water	EPA 1664-SGT	09/18/08 11:00	09/26/08 09:56	1N/A/1N/A	1N/A/1mL	NA
: Ag				Sample	Default	RL Prep
	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Water	EPA 150.1	09/18/08 11:00	09/19/08 09:10	20mL/20mL	20mL/20mL	NA
	Matrix Water Matrix Water Water Matrix Water Ag Matrix	Matrix Method Water EPA 624 Semivolatile Org Matrix Method Water EPA 625 SIM Matrix Method Water EPA 200.8 Matrix Method Water EPA 1664 Water EPA 1664-SGT AQ Matrix Method	Matrix Method Sampled Water EPA 624 09/30/08 13:30 Semivolatile Organic Compounds by Matrix Method Sampled Water EPA 625 SIM 09/18/08 11:00 Total Metals by EP Matrix Method Sampled Water EPA 200.8 09/18/08 11:00 Conventional Chem Matrix Method Sampled Water EPA 1664 09/18/08 11:00 Water EPA 1664-SGT 09/18/08 11:00 AQ Matrix Method Sampled	Water EPA 624 09/30/08 13:30 10/02/08 09:24 Semivolatile Organic Compounds by EPA 625 Modified (S Matrix Method Sampled Prepared Water EPA 625 SIM 09/18/08 11:00 09/18/08 17:04 Total Metals by EPA 200.8 (ICPMS) Matrix Method Sampled Prepared Water EPA 200.8 09/18/08 11:00 09/23/08 14:42 Conventional Chemistry Parameters Matrix Method Sampled Prepared Water EPA 1664 09/18/08 11:00 09/26/08 09:56 Water EPA 1664-SGT 09/18/08 11:00 09/26/08 09:56 AQ Matrix Method Sampled Prepared	Matrix Method Sampled Prepared Initial/Final Water EPA 624 09/30/08 13:30 10/02/08 09:24 5mL/5mL Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis) Matrix Method Sampled Prepared Initial/Final Water EPA 625 SIM 09/18/08 11:00 09/18/08 17:04 1070mL/5mL Total Metals by EPA 200.8 (ICPMS) Matrix Method Sampled Prepared Initial/Final Water EPA 200.8 09/18/08 11:00 09/23/08 14:42 45mL/50mL Conventional Chemistry Parameters Matrix Method Sampled Prepared Initial/Final Water EPA 1664 09/18/08 11:00 09/26/08 09:56 IN/A/1N/A Water EPA 1664-SGT 09/18/08 11:00 09/26/08 09:56 IN/A/1N/A Aq Matrix Method Sampled Prepared Initial/Final	Matrix Method Sampled Prepared Sample Initial/Final Default Initial/Final Water EPA 624 09/30/08 13:30 10/02/08 09:24 5mL/5mL 5mL/5mL Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis) Matrix Method Sampled Prepared Initial/Final Default Initial/Final Water EPA 625 SIM 09/18/08 11:00 09/18/08 17:04 1070mL/5mL 1000mL/5mL Total Metals by EPA 200.8 (ICPMS) Water EPA 200.8 09/18/08 11:00 09/23/08 14:42 45mL/50mL 45mL/50mL Conventional Chemistry Parameters Matrix Method Sampled Prepared Initial/Final Default Initial/Final Water EPA 1664 09/18/08 11:00 09/26/08 09:56 1N/A/1N/A 1N/A/1ML Water EPA 1664-SGT 09/18/08 11:00 09/26/08 09:56 1N/A/1N/A 1N/A/1ML EAg Matrix Method Sampled Prepared Initial/Final Initial/Final

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Renorted:

10/10/08 15:32

Notes and Definitions

Qualifiers:

Е Estimated Value. The result is above the calibration range of the instrument.

J Estimated Result. Result detected below the lowest point of the calibration curve, but above the statistical MDL.

Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not detected in reported client samples. Data quality is not affected.

Q-23 Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Data is likely biased high.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

S-02 Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Notes and Conventions:

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

QC

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike Batch

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'A'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100 Project Manager: Lian Jewell

Reported: 10/10/08 15:32

Las. A3 18 18 00 000 000	CO)- 2000 - 000-1 XIIII	1		039 7000 18 100 18 100						A STATE OF THE STA			and a second	·		ክድሮቴንሳይክ ነሃ: ጃው በንተሉ	Piscal Name	Conputé:	
	Walica Name See Cla 1.4		ANADSIS REDIT	ESTO VOCS. SETTING THE FAIR. SERVICES AND SETTING SE								SPECIAL INSTRUCTIONS:	•			Karine Karine Kellikanski Bir	Mustilianer: Tieks	Pathag	
CHAIN OF CUSTODY	Marsh Hare Solit The Office Rose R.	n =		ESS DEBON AGE RES DEBON AGE NALLHES NA	-pt m cent		- Coffin			All mary	At Zooth		чвик глик	SDAY Other Zalas		B	Carson & Erretto		
APEX LABS	CONTRACT CONTRACT CONTRACT ON VIEW BY THE SELECTION CHACK	Address 5555 N Charmy	Southedler, Bas allier	Sir Exertism: Oil. WA. Gillest:	0.42	5413 CAT 'A'				+		Morres Dear Around Time (TAT) = 1610 Desires Days	24 HR	TAT Requested (rdrese)	SAMPLES ARE HELD FOR M DAYS	Oller.	Tiese Tiese Tiese	Casyuun	

Apex I	Laboratories
--------	--------------

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Ø051/601

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'A'

Project Number: 1-000-0002-100

Project Manager: Lian Jewell

Reported: 10/10/08 15:32

PEXLABS			C.	HA	Z	₹	CHAIN OF CUSTODY	28	0	· Č				1,1		· <u>8</u>	A817188	8	•	Š	¥	· į	
282 5.14. Gooden Plans, Tigard, OR 97223 Ph. 503-718-2323 Fax: 563-718-6333	503-738-23	23 Fea	3	97.	2																:		
GOTTENT LLC	Project Man	J	441	ا "	787	3		(ala)	Profess Lagra		8 11 15	.50	PAT.	Ķ		g project g	3						
					-	Passe					Fax	٠.		Emg-	·								_
Wite Warder	11000	6.00	83					5.4				1	LYSIS WE										17.
SARGUESO	ekn Xintan	SUBHIATHOD 920	CALCULACIO	2741714V ₄	XWTFH-Cx	731ii	STORY HATE YOU'S STORY HUDSEY YOU'S	430A 1938	ATM SIM PAEL	1003 1000	1001 Alend 16)	(ke) elenké zámeri	או שה אני ציה לא פט כה כה כיו, כיו, ליו לא ניב, אבי הוה האה או, אני צי, אבי אין דר א' לא	TOTAL BESIEF (SI)	istr core	Z-1851	129 HJ	***************************************					I
4-30-08 07 9kg	11:30 L	23				-	_		-			ļ		L		\ 	15	L		┝	┞	L.	-
			L		-	-	_				-	├-		ļ	L		{	_		-	-	<u>.</u>	1:
		- -	_			├-	ļ.			-	-	<u> </u>		<u> </u>			_			-		ļ.	· ·
		L	<u> </u> _		-	<u> </u>	<u> </u>			<u> </u>	-	_		ļ			-			┢	╢		
			<u> </u>		1	₹ ∰.	-			H	-	-		ļ			\vdash			-	-		 -
		<u> </u>	1_	5	2	[_	ļ.	ļ		┢	┝	-		ļ			\vdash	-		╁	╁	 	
							.,,,,,,,	<u> </u> _				-		-			├	<u> </u>		<u> </u>	-	١	1
						*****	7 24.72	_			-		L.	-		į	<u> </u>	_		-	\vdash	<u>ا</u>	ì
																	-	_		\vdash	H		
		_			******							20.50	-					_		H	\vdash	┝	
Noneal flum Amend Thre (TAT) - 5-10 Guerra Der	ETAT) - S10	Green	Ä			1	3	200	2	3	SPECIAL INSTRUCTIONS	.5.											· -
ZA HIS	13 H R	72 559	眩																				
TAT Requested (circle) 4.DAY	SOAY	Officer	밁			Ī																	
	DFOR JORG	8				1	T																
HATTER DATE SCHOOL SCHOOL SCHOOL	# 'Y	CELVED Series	ä				# å	12.5	RELINGUESIEN DY Spranc	ğ		J	Dar.				2 %	RECEIVED DY: Stress	2.00			ŀ	T****
lier:		Weed Kery		ľ			£	Princed Number	1]	T.	-	١.		E	Thank Name	,	-		ĺ	-
				٠	٠.										٠.								·
	පී	Centrage				٠.	\$	Corolens;									Ğ.	Chapath	1				
	-			1	-		+		l.	l			-		l							ľ	٦.

Apex Laboratories

 \mathcal{A}



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

APEX Laboratories

Certificate of Analysis Number:

08090867

Report To: **Project Name:** A809188 Tigard, OR Site: **APEX Laboratories Darwin Thomas** Site Address: 12232 SW Garden Place PO Number: Portland Oregon OR 97223-TX200001 State Cert. No.: ph (503) 718-2323 fax: Date Reported:

This Report Contains A Total Of 11 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: APEX Laboratories

Certificate of Analysis Number:

08090867

A809188 Report To: **Project Name:** Site: Tigard, OR APEX Laboratories **Darwin Thomas** Site Address: 12232 SW Garden Place PO Number: Portland State: Oregon OR TX200001 97223-State Cert. No.: ph (503) 718-2323 fax: **Date Reported:**

The chain of custody requested Titanium by Method 200.8. Per our phone conversation on September 20, 2008, SPL analyzed Titanium by method 200.7.

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

For the Pesticide/PCBs by Method 608 analysis, sample ID "T-17-09-18-08 Sub Cat "A" (SPL ID: 08090867-01) recovered below QC limits for surrogate Decachlorobiphenyl. Due to insufficient sample volume, the sample could not be re-rextracted or re-analyzed to confirm matrix interference

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID:(83864) for the Pesticide/PCBs analysis by EPA Method E608. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

alism C. Rody

08090867 Page 1 9/30/2008



APEX Laboratories

Certificate of Analysis Number:

08090867

Report To:

APEX Laboratories

Darwin Thomas

12232 SW Garden Place

Portland

OR

97223-

ph (503) 718-2323

fax: (503) 718-0333

Project Name:

A809188

Site:

State:

Tigard, OR

Site Address:

PO Number:

Oregon TX200001

State Cert. No.: Date Reported:

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COCID	HOLD
T-17-09-18-08 Sub Cat 'A'	08090867-01	Water	9/18/2008 11:00:00 AM	9/20/2008 10:15:00 AM		
T-17-09-18-08 Sub Cat 'A'	08090867-01	Water	9/18/2008 11:00:00 AM	9/23/2008 9:30:00 AM		

alism C. Rody

9/30/2008

Date

Alisha C. Rodriguez Project Manager

> Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08090867 Page 2 9/30/2008 4:40:11 PM



Client Sample ID T-	17-09-18-08 Sub Cat 'A	ν'	Collected: (09/18/2008 11	:00	SPL Sam	ple ID	; 0809	0867-01
			Site: Tig	ard, OR					
Analyses/Method	Result	QUAL	Rep.Limit	Dil. F	actor	Date Analy	/zed	Analyst	Seq.#
CYANIDE, TOTAL				MCL		E335.2	Unit	s: mg/L	
Cyanide	ND		0.005		1	09/22/08 1	3:30 E	SK	4683530
Prep Method	Prep Date	Prep Initials	Prep Factor						
E335.2	09/22/2008 10:00	ESK	1.00						
MERCURY, TOTAL				MCL		E245.1	Unit	s: mg/L	
Mercury	ND		0.0002		1	09/22/08 1			4683694
Prep Method	Prep Date	Prep Initials	Prep Factor						
E245.1	09/22/2008 9:30	EMB	1.00						
METALS BY METHO	D 200.7, TOTAL		**** ***	MCL		E200.7	Unit	s: mg/L	
Tin	ND		0.05		1	09/29/08	4:12 B	DG	4693548
Titanlum	ND		0.02		1	09/29/08	4:12 B	DG	4693548
Prep Method	Prep Date	Prep Initials	Prep Factor						
E200.7/200.8	09/24/2008 12:45	DDW	1.00						
PESTICIDE/PCBS BY	METHOD 608			MCL		E608	Unit	s: ug/L	
Aroclor 1016	ND		1		1	09/26/08			4690959
Aroclor 1221	ND		1		1	09/26/08	6:58 F	RLR	4690959
Aroclor 1232	ND		1		1	09/26/08	6:58 F	RLR	4690959
Aroclor 1242	ND	······································	1		1	09/26/08	6:58 F	LR	4690959
Aroclor 1248	ND		1		1	09/26/08	6:58 F	RLR	4690959
Aroclor 1254	ND		1		1	09/26/08	6:58 F	RLR	4690959
Aroclor 1260	ND		1		1	09/26/08	6:58 R	LR	4690959
Surr: Decachlorobiph	enyl 17.2	*	% 35-124		1	09/26/08	6:58 R	RLR	4690959
Surr: Tetrachloro-m-x	cylene 90.9		% 48-120		1	09/26/08	6:58 R	LR	4690959
Prep Method	Prep Date	Prep Initials	Prep Factor						
E608	09/24/2008 9:47	N_M	1.00						
SULFIDE, TOTAL				MCL S	SM45	00-S D	Unit	s: mg/L	
Sulfide	0.102		0.05		1	09/22/08 10			4682646

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

- our ogate recovery outside Advisable do Limit

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08090867 Page 3 9/30/2008 4:40:17 PM

Quality Control Documentation



APEX Laboratories A809188

Analysis:

Pesticide/PCBs by Method 608

Method:

E608

WorkOrder:

Samples in Analytical Batch:

08090867

Lab Batch ID:

83864

Method Blank

Lab Sample ID

Client Sample ID

RuniD: HP_A_080926C-4690963

Units:

Analysis Date:

09/26/2008 8:07

Analyst: RLR 08090867-01D

T-17-09-18-08 Sub Cat 'A'

09/24/2008 9:47 Preparation Date:

Prep By: N_M Method E608

ug/L

Analyte	Result	Rep Limit
Aroclor 1016	ND	1.0
Aroclor 1221	ND	1.0
Aroclor 1232	ND	1.0
Aroclor 1242	ND	1.0
Aroctor 1248	ND	1.0
Arocfor 1254	ND	1.0
Aroclor 1260	ND	1.0
Surr: Decachlorobiphenyl	52.1	35-124
Surr: Tetrachloro-m-xylene	103.5	48-120

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

HP_A_080926C-4690961

09/26/2008 7:33

Units:

Analysis Date:

ug/L Analyst: RLR

Preparation Date: 09/24/2008 9:47 Prep By: N_M Method E608

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Aroclor 1016	10.0	10.3	103	10.0	10.7	107	4.0	30	50	114
Aroclor 1260	10.0	9.85	98.5	10.0	10.1	101	2.5	30	8	127
Surr: Decachlorobiphenyl	1.00	0.662	66.2	1.00	0.806	80.6	19.6	30	35	124
Surr: Tetrachloro-m-xylene	1.00	1.05	105	1.00	1.10	1 10	5.2	30	48	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08090867 Page 5

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories

A809188

Analysis:

Mercury, Total

Method:

E245.1

Samples in Analytical Batch:

08090867

Lab Batch ID:

WorkOrder:

83810

Method Blank

RunID: HGLC_080922A-4683688

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

09/22/2008 15:01

Analyst: **EMB**

08090867-01A

T-17-09-18-08 Sub Cat 'A'

Preparation Date:

09/22/2008 9:30

EMB Method E245.1 Prep By:

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID:

HGLC_080922A-4683689

Units:

mg/L

Analysis Date: Preparation Date:

09/22/2008 15:04 09/22/2008 9:30

Analyst: EMB

Prep By: EMB Method E245.1

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001888	94.38	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: RunID:

08090133-01

HGLC_080922A-4683691

Units:

mg/L

Analysis Date: Preparation Date:

09/22/2008 15:08 09/22/2008 9:30

Analyst: **EMB**

Prep By: EMB Method E245.1

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	
Mercury	ND	0.002	0.002013	90.92	0.002	0.002063	93.42	2.455	20	70	130	İ

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08090867 Page 6

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories A809188

Analysis:

Metals by Method 200.7, Total

Method:

E200.7

WorkOrder:

08090867

Lab Batch ID:

83875

Method Blank

RunID: TJA_080928A-4693540

Units:

mq/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

09/29/2008 3:36

Analyst: BDG 08090867-01A

T-17-09-18-08 Sub Cat 'A'

Preparation Date:

09/24/2008 12:45

Prep By:

DD Method E200.7/200.8

Analyte	Result	Rep Limit
Tin	ND	0.05
Titanium	ND	0.02

Laboratory Control Sample (LCS)

RunID:

TJA 080928A-4693541

Units:

mg/L

Analysis Date: Preparation Date:

09/29/2008 3:41 09/24/2008 12:45 Analyst: BDG

Prep By: DD Method E200.7/200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Tin	1.000	1,111	111.1	85	115	
Titanium	1.000	0.9287	92.87	85	115	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08090988-01

RunID:

TJA_080928A-4693543

Units:

mg/L

Analysis Date:

09/29/2008 3:50

Preparation Date:

Analyst: BDG

09/24/2008 12:45

Prep By: DD Method E200.7/200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Tin	ND	1	1.103	109.0	1	1.091	107.7	1.125	20	70	130
Titanium	ДИ	1	1.005	99.92	1	1.006	100.0	0.09744	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08090867 Page 7

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories

A809188

Analysis:

Cyanide, Total

Method:

E335.2

Samples in Analytical Batch:

WorkOrder:

08090867

Lab Batch ID:

83811

Method Blank

RunID: WET_080922P-4683526

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

09/22/2008 13:30

Analyst:

ESK

08090867-01C

T-17-09-18-08 Sub Cat 'A'

Preparation Date:

09/22/2008 10:00

ESK Method E335.2 Prep By:

Analyte Result Rep Limit Cyanide 0.0050

Laboratory Control Sample (LCS)

RunID:

WET_080922P-4683527

Units:

mg/L

Analysis Date: Preparation Date:

09/22/2008 13:30 09/22/2008 10:00

Analyst: ESK

Prep By: ESK Method E335.2

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Cyanide	0.2000	0.1975	98.74	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08090867-01

RuniD:

WET_080922P-4683531

Units: mg/L

Analysis Date:

09/22/2008 13:30

Analyst: ESK

Preparation Date: 09/22/2008 10:00 Prep By:

ESK Method E335.2

Analyte ·	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Cyanide	ND	0.2	0.2107	105.3	0.2	0.2107	105.3	0	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08090867 Page 8

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



APEX Laboratories A809188

Analysis:

Sulfide, Total

Method:

SM4500-S D

WorkOrder:

08090867

Lab Batch ID:

R251743

Method Blank

RunID: WFT_080922G-4682628

Units:

mg/L ESK

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

09/22/2008 10:15

Analyst:

08090867-01B

T-17-09-18-08 Sub Cat 'A'

Analyte	Result	Rep Limit
Sulfide	ND	0.050

Laboratory Control Sample (LCS)

RunID:

WET_080922G-4682630

Units:

mg/L

Analysis Date:

09/22/2008 10:15

Analyst: ESK

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfide	0.2500	0.2479	99.16	89	108

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08090906-02

WET_080922G-4682639

Units:

mg/L

RunID: Analysis Date:

09/22/2008 10:15 Analyst: ESK

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfide	ND	0.25	0.2642			0.2642	91.92	0	12	84	115

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08090867 Page 9

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist And Chain of Custody



Sample Receipt Checklist

Workorder: Date and Time Received: Temperature:	08090867 9/20/2008 10:15:00 AM 3.5°C		Received By: Carrier name: Chilled by:	L_C Fedex-Priority Water Ice
1. Shipping container/co	poler in good condition?	Yes 🗹	No 🗆	Not Present
2. Custody seals intact	on shippping container/cooler?	Yes 🗌	No 🗆	Not Present
3. Custody seals intact	on sample bottles?	Yes 🗌	No 🗀	Not Present ☑
4. Chain of custody pres	sent?	Yes 🗹	No 🗆	
5. Chain of custody sign	ned when relinquished and received?	Yes 🗹	No 🗆	
6. Chain of custody agre	ees with sample labels?	Yes 🗹	No 🗌	
7. Samples in proper con	ntainer/bottle?	Yes 🗹	No 🗆	
8. Sample containers int	act?	Yes 🗹	No 🗆	
9. Sufficient sample volu	ume for indicated test?	Yes 🗹	No 🗆	
10. All samples received to	within holding time?	Yes 🗹	No 🗌	
11. Container/Temp Blank	s temperature in compliance?	Yes 🗹	№ □	
12. Water - VOA vials hav	e zero headspace?	Yes	No □ VOA V	fials Not Present
13. Water - Preservation o	checked upon receipt (except VOA*)?	Yes 🗹	No 🗆	Not Applicable
*VOA Preservation Ch	ecked After Sample Analysis			
SPL Representativ	Fime:			
Issues:	eceived sample container for PCB analysis :	9/23/08 09:30 AM		
Client Instructions:				

SUBCONTRACT ORDER

08090867

Apex Laboratories

A809188

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77054 Phone :(800) 969-6775

Fax: (713) 660-8975

Sample Name: T-17-09-18-08 Sub Cat	'A'	Water Sam	pled: 09/18/08 11:00	(A809188-01)
Analysis	Due	Expires	Comments	
245.1 Hg (Mercury) - Total (H2O)	09/29/08 17:00	10/16/08 11:00		
· Cyanide, Total	09/29/08 17:00	10/02/08 11:00		
Sn (Tin) - 200.7 - Total	09/29/08 17:00	03/17/09 11:00		
Sulfide (376.2)	09/29/08 17:00	09/25/08 11:00		
Ti (Titanium) - 200.8 - Total	09/29/08 17:00	03/17/09 11:00	SPL	
Containers Supplied:				
(G)250 mL Poly - NaOH				
(H)250 mL Poly - NaOH/Zinc Acetate				
(1)(250 Liberto Nicolo (11)(02)				

3.5-6

Released By

Federal Express (Shipper)

Received By

Federal Express (Shipper)

Page 1 of

Received By

Released By

Date

SUBCONTRACT ORDER

Apex Laboratories A809188

08090867

SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

SPL, Inc Houston 8880 Interchange Dr. Houston, TX 77054 Phone:(800) 969-6775 Fax: (713) 660-8975

Sample Name: T-17-09-18-08 Sub (Cat 'A'	Water	Sampled: 09/18/08 11:00	(A809188-01)
Analysis	Due	Expires	Comments	
245.1 Hg (Mercury) - Total (H2O)	09/29/08 17:00	10/16/08 11:00)	
608 PCBs	09/29/08 17:00	09/25/08 11:00	Chlordane only, lim	it 0:03 mg/Liter
Cyanide, Total	09/29/08 17:00	10/02/08 11:00)	
Sn (Tin) - 200.7 - Total	09/29/08 17:00	03/17/09 11:00)	
Sulfide (376.2)	09/29/08 17:00	09/25/08 11:00)	
Ti (Titanium) - 200.8 - Total	09/29/08 17:00	03/17/09 11:00) SPL	
Containers Supplied: (D) (E) I L Amber Glass - Non Preserved (G) 250 mL Poly - NaOH (H) 250 mL Poly - Natric (HNO3)	Please ac	dd to	Report	0809086=

PCB only all other bottles and analysis rec already.

3,5

Released By

Released By

Received B

Received By-

Date

Received By

41

Page





Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452	Dean Marriott, Director	Dan Saltzman, Commissioner
BATCH DISCHARGE	REQUEST FORM	

Waste Generator Information

Permit Contact

Information

Source Name

Cascade General

Name

Charles Isted

Address

Cascade General

Source Address

5555 N. Channel Ave.

5555 N. Channel Ave

Portland, OR

97217

Portland, OR 97217 503/247-1959

Telephone Number Facsimile Number

503/247-6050

Batch Information

CWTB

Email Address

cisted@casgen.com

Batch Number:

Date Proposed:

Proposed Discharge

550,000 gal

Volume:*

Request Date/Time:

10/02/2008

Actual Discharge Volume:

Tank-7, BWTP

Duration of Discharge:

10/03/2008

Sampling Location:

Start: 10/03/08 1200

Stop: 10/07/08

Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-B

Discharge flow will be stopped if heavy rain develops. Flow will be held below 180 gpm. Are the analysis sheets, QA/QC and chain of custody attached? (circle one)

City Use Only

Batch discharge approval: YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date: 10-02-2008

All self-monitoring reports (SMR) must include the following to be considered complete. For more detailed information regarding these items, please refer to the colored reference sheet. If you have any questions, please contact your permit manager for assistance.

Self Monitoring Report Check List:

- ρ Chain of Custody form
- ρ Analytical Results with Method Detection Limits (MDL)
- ρ QA/QC Results
- ρ Signed Signatory Certification Statement (Printed on bottom of SMR)
- ρ Completed Self Monitoring Report form

To assure prompt delivery, mail all monitoring results to:

Industrial Source Control Division Water Pollution Control Laboratory 6543 N. Burlington Avenue Portland, OR 97203-5452

Attn: Biola Cruse

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

September 2008

Ballast Water Treatment Plant Effluent - (CWT - B)

Date Postmarked/Received	Date Entered
omments:	Entered By:

SAMPLE DATE	POINT OF	COMPLIANO	CE s	AMPLE TYPE	The second secon		
	C	WT2B		GRAB			
PARAMETER	ANALYSIS METHOD		ORTED NTRATION	MDL	L DAILY	MITS MONTHLY	COMMENTS
HEM Oil and Grease (Non-Polar)	EPA 1664	17.7	mg/L	4.72 mg/L	110 mg/L	N/A	Local Limit
рН	EPA 150.1	8.91	pH Units		5.0 - 11.5	N/A	Local Limit
Bis-2-ethyhexylphthalate	EPA 625 SIM	ND	mg/L	0.0595 mg/L	0.267 mg/L	0.158 mg/L	A STATE OF THE STA
Carbazole	EPA 625 SIM	0.0109	mg/L	0.00476 mg/L	- 0,392 mg/L	0,233 mg/L	The state of the s
Fluoranthane	EPA 625 SIM	ND	mg/L	0.00476 mg/L	0.787 mg/L	0.393 mg/L	CONTROL OF THE CONTRO
п-Decane	EPA 625 SIM	ND	mg/L	0.0238 mg/L	5.79 mg/L	3,31 mg/L	ASC AND ASC ASC ASC ASC ASC ASC ASC ASC ASC ASC
n-Octadecane	EPA 625 SIM	ND	mg/L	0.0238 mg/L	1.22 mg/L	0.925 mg/L	A CANADA
PCP	EPA 625 SIM	0.0130	mg/L	0.0119 mg/L	0.040 mg/L	N/A	Local Limit

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

SAMPLE DATE	POINT OF O	POINT OF COMPLIANCE SAMPLE TYPE CWT2B COMPOSITE ANALYSIS REPORTED MDL METHOD CONCENTRATION		SAMPLE TYPE			
	CV						
PARAMETER				LIN DAILY	MONTHLY	COMMENTS	
Antimony `	EPA 200.8	ND	mg/L	0.00450 mg/L	0.237 mg/L	0.141 mg/L	
Barium (Total)	EPA 200.8	0.0123	mg/L	0.00100 mg/L	0.427 mg/L	0.281 mg/L	
Chromium (Total)	EPA 200.8	0.0197	mg/L	0.00100 mg/L	0.947 mg/L	0.487 mg/L	
Cebalt (Total)	EPA 200.8	0.0105	mg/L	0.00200 mg/L	56,4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	ND	mg/L	0.00500 mg/L	.0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00100 mg/L	0.222 mg/L	0.172 mg/L	

Molybdenum (Total)	EPA 200.8	0.312	mg/L	0.0200 mg/L	1.4 mg/L 2.09 mg/L
Tin (Total)	EPA 6010B	ND	mg/L	0.020 mg/L	0.249 mg/L 0.146 mg/L
Zinc (Total)	EPA 200.8	0.0238	mg/L	0.00400 mg/L	3.7 mg/L 4.46 mg/L

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date: 10-02-08

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Thursday, October 2, 2008

Bob Collinson VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for work order <u>A809116</u>, which was received by the laboratory on 9/12/2008 at 10:01:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

09/28/08 11:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION								
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received				
T-7-09-12-08 Sub Cat 'B'	A809116-01	Water	09/12/08 10:00	09/12/08 10:01				

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

ANALYTICAL SAMPLE RESULTS

		Purgea	ble Organi					
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-7-09-12-08 Sub Cat 'B' (A8091	116-01)		Matrix: W	ater ater				R-04
Acrylonitrile	ND		0.0100	mg/L	10	09/12/08 21:01	EPA 624	
Chlorobenzene	ND		0.00500	11	H	10	u,	
Chloroform	ND		0.0200	n	P	н	II.	
1,2-Dichloroethane (EDC)	ND		0.00500	и	17	b	п	
Trichloroethene (TCE)	ND		0.00500	n	¥f	11-	п	
Surrogate: Dibromofluorometh	ane (Surr)	Rec	overy: 93 %	Limits: 80-120 %	1	ų	n	
1,4-Difluorobenzene	(Surr)		92 %	Limits: 80-120 %		h	n	
Toluene-d8 (Surr)			90 %	Limits: 80-120 %	н	'n	n	
4-Bromofluorobenze	ene (Surr)		114%	Limits: 80-120 %	, п	•	"	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 09/28/08 11:46

ANALYTICAL SAMPLE RESULTS

	Semivolati	le Organic	Compoun	ds by EPA 625 N	lodified (S	SIM Analysis)		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
F-7-09-12-08 Sub Cat 'B' (A8091	116-01)		Matrix: W	ater				
Bis(2-ethylhexyl)phthalate	ND		0.0595	mg/L	50	09/19/08 12:54	EPA 625 SIM	
Carbazole	0.0109		0.00476	11	n	II		
2,4-Dinitrotoluene	ND		0.0238	17	11	н	11	R-0
Decane	ND		0.0238	0	11		ч	
Fluoranthene	ND		0.00476	н	n	TP	n	
Nitrobenzene	ND		0.00476	п	н	17		
Octadecane	ND		0.0238	tr	n	u	,	
Pentachlorophenol (PCP)	0.0130		0.0119	n	"	n	n	
Surrogate: Nitrobenzene-d5 (St	urr)	Reco	very: 100 %	Limits: 35-120 %	11		N	
2,4-Dibromophenol	(Surr)		140 %	Limits: 30-125 %	"	n	n	S-02
2-Fluorobiphenyl (S	Jurr)		86 %	Limits: 45-120 %	**	n	n	
p-Terphenyl-d14 (Si	urr)		88 %	Limits: 30-120 %	61	n	19	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported:

09/28/08 11:46

ANALYTICAL SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes						
Г-7-09-12-08 Sub Cat 'B' (A809116-01)		Matrix: Water											
Arsenic	0,0159		0.00100	mg/L	· 1	09/19/08 13:36	EPA 200.8							
Barium	0.0123		00100.0	tt	v	n	n							
Cadmium	ND		0.00100	tt	"	D	•							
Chromium	0.0197		0.00100	n	r.	tr.	•							
Cobalt	0.0105		0.00200	п	n	n .	7							
Copper	ND		0.00500	11	. и	n	n							
Lead	ND		0.00100	11	*	н	"							
Molybdenum	0.312		0.0200	19	10	09/19/08 13:33	P							
Nickel	0.165		0.00100	o	1	09/19/08 13:36	u							
Selenium	0.0542		0.00100	17	**	o	u							
Silver	ND		0.00200	**	**	D	*1							
Zinc	0.0238		0.00400	n	tr	19	н							
F-7-09-12-08 Sub Cat 'B' (A809116-01RE2)		Matrix: Water											
Antimony	ND		0.00450	mg/L	1	09/22/08 14:52	EPA 200.8							

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

09/28/08 11:46

ANALYTICAL SAMPLE RESULTS

		Con	ventional Ch	emistry Para	meters			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
Г-7-09-12-08 Sub Cat 'B' (A809116-	01)		Matrix: Wate	er				
HEM (Oil and Grease)	17.7		4.72	mg/L	1	09/18/08 11:47	EPA 1664	
SGT-HEM (Non-polar Material)	5.85		4.72	n	н	09/18/08 16:34	EPA 1664-SGT	
pH	8.91			pH Units	n	09/12/08 17:43	EPA 150.1	
pH Temperature	24.0			deg C	н	U	n	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported:

09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	c Compou	nds by EP	A 624					
Алајуте	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090116 - EPA 5030B							Wat	er				
Blank (8090116-BLK2)						Analyzed:	09/12/08 12	:52				
EPA 624												
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND		0.000500	п	D							
Chloroform	ND		0.00200	n	v							
1,2-Dichloroethane (EDC)	ND		0.000500	n	o o				***			
Trichloroethene (TCE)	ND		0.000500	13	u							
Surr: Dibromofluoromethane (Surr)		Reco	very: 100 %	Limits:	80-120 %	Dil	ution: lx	-				
1,4-Difluorobenzene (Surr)			94 %		80-120 %		"					
Tohiene-d8 (Surr)			90 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			123 %		80-120 %		"					S-07
LCS (8090116-BS4)						Analyzed: (09/12/08 11:	:52				
EPA 624												
Acrylonitrile	0.0151		0.00100	mg/L	1	0.0200		75	70-130%			
Chlorobenzene	0.0192		0.000500	19	PT	"		96	**			
Chloroform	0.0187		0.00200	tr.	n	u		93				
1,2-Dichloroethane (EDC)	0.0202		0.000500	tr		ч		101	.,			
Trichloroethene (TCE)	0.0214		0.000500	п	и	17		107	q			
Surr: Dibromofluoromethane (Surr)		Rec	overy: 99 %	Limits:	80-120 %	Dilı	ution: lx					
1,4-Difluorobenzene (Surr)			93 %		80-120 %		"					
Toluene-d8 (Surr)			88 %		80-120 %		"					
4-Bromofluorobenzene (Surr)		-	107 %		80-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	e Organic Co	ompour	ds by EPA	4 625 Modi	fied (SIM	Analysi	s)			
Analyte	Result	MDL	Reporting Limit	Units	Đil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090160 - EPA 3510C							Wat	ter	-11			
Blank (8090160-BLK1)						Analyzed:	09/19/08 10	:32				
EPA 625 SIM		*******				<u> </u>		-				
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	I							
Carbazole	ND		0.000100	11	11							
2,4-Dinitrotoluene	ND		0.000500	11	**		***					
Decane	ND		0.000500	u	n							
Fluoranthene	ND		0.000100	n	п	***						
Nitrobenzene	ND		0.000100		и							
Octadecane	ND		0.000500	н	н			***			~~~	
Pentachlorophenol (PCP)	ND		0.000250	19	11			•	***			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 101 %	Limits:	35-120 %	Dil	ution: Ix					
2,4-Dibromophenol (Surr)		71000	95 %	21///1101	30-125 %	2.7	"					
2-Fluorobiphenyl (Surr)			98 %		45-120%		n					
p-Terphenyl-d14 (Surr)			103 %		30-120 %		"					
**												
LCS (8090160-BS1)						Analyzed:	09/19/08 10	:55				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00461		0.00125	mg/L	1	0.00500		92	40-125%			
Carbazole	0.00595		0.000100	"	u•	**		119	14			
2,4-Dinitrotoluene	0.00607		0.000500	4)	17	P		121	*			
Decane	0.00506		0.000500	n	n	•		101	79			
Fluoranthene	0.00582		0.000100	•	n			116	55-120%			
Nitrobenzene	0.00568		0.000100	n	n	11		114	40-125%			
Octadecane	0.00506		0.000500	19	11	"		101	17			
Pentachlorophenoi (PCP)	0.00600		0.000250	17	"	u		120	40-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 104 %	Limits:	35-120 %	Dili	ution: Ix					
2,4-Dibromophenol (Surr)			102 %		30-125 %		n					
2-Fluorobiphenyl (Surr)			100 %		45-120 %		<i>u</i>					
p-Terphenyl-d14 (Surr)			107 %		30-120 %		"					
LCS Dup (8090160-BSD1)						Analyzed: 0	09/19/08 11:	:19				
PA 625 SIM						•						
Bis(2-ethylhexyl)phthalate	0.00461		0.00125	mg/L	1	0.00500		92	40-125%	0.08	30%	
Carbazole	0.00580		0.000100	"	u u	п		116		3	30%	
2,4-Dinitrotoluene	0.00546		0.000500		п			109		11	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 8 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volatile	Organic Co	ompoun	ds by EPA	62 5 M odi	fied (SIM	Analysi	5)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090160 - EPA 3510C						,	Wat	er				
LCS Dup (8090160-BSD1)						Analyzed:	09/19/08 11	:19				
Fluoranthene	0.00561		0.000100	mg/L	**	*		112	55-120%	4	30%	
Nitrobenzene	0.00547		0.000100	п	"	и		109	40-125%	4	30%	
Octadecane	0.00529		0.000500		п	и		106	n	5	30%	
Pentachlorophenol (PCP)	0.00585		0.000250	•		•		117	40-120%	2	30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 100 %	Limits:	35-120 %	Dili	ution: Ix				_	
2,4-Dibromophenol (Surr)			90 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			97 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			105 %		30-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	}					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090197 - EPA 3015							Wat	er				_
Blank (8090197-BLK1)						Analyzed:	09/19/08 13	:23				
EPA 200.8												*****
Arsenic	ND		0.00100	mg/L	1							
Barium	ND		0.00100	tr.	w							
Cadmium	ND		0.00100	11	n							
Chromium	ND		0.00100	H	n							
Cobalt	ND		0.00200	н	н							
Соррег	ND		0.00500	n	n							
Lead	ND		0.00100	n	н							
Molybdenum	ND		0.00200	11	"	***						
Nickel	ND		0.00100	11	n							
Selenium	ND		0.00100	4	D			-				
Silver	ND		0.00200	"	"							
Zinc	ND		0.00400	H	u							
LCS (8090197-BS1)						Analyzed: (09/19/08 13	:27				
EPA 200.8		-										
Arsenic	0.0584		0.00100	mg/L	I	0.0556	***	105	85-115%			
Barium	0.0580		0.00100	n	"	U		104	п			
Cadmium	0.0574		0.00100	n	ii	n		103	D			
Chromium	0.0596		0.00100	111	11	ii .		107	D			
Cobalt	0.0590		0.00200	17	9	"		106	v			
Copper	0.0598		0.00500		ø	II.		108	יו			
Lead	0.0567		0.00100	•	17	п		102	92			
Molybdenum	0.0639		0.00200	н	п	ti .		115	82	****		
Nickel	0.0590		0.00100	"	п	11		106	uf			
Selenium	0.0286		0.00100	n	п	0.0278		103	н			
Silver	0.0295		0.00200	n	п	U		106	**			
Zinc	0.0565		0.00400	11	n.	0.0556		102				

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	<u> </u>					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090246 - EPA 3015							Wa	ter				
Blank (8090246-BLK1)						Analyzed:	09/22/08 14	l:46				
EPA 200.8												
Antimony	ND		0.00100	mg/L	i							
LCS (8090246-BS1)						Analyzed:	09/22/08 14	1:49				
EPA 200.8												
Antimony	0.0369		0.00100	mg/L	I	0.0278		133	85-115%			Q-08
Duplicate (8090246-DUP1)			Source: A	809116-01R	E2	Analyzed: (09/22/08 14	l:55				
EPA 200.8		_							***************************************			
Antimony	ND		0.00450	mg/L	I		ND				20%	
Matrix Spike (8090246-MS1)			Source: A	809116-01R	E2	Analyzed: (09/22/08 14	:58				_
EPA 200.8												-
Antimony	0.168		0.00450	mg/L	1	0.125	ND	135	70-130%			Q-29

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional Ch	emistry	Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Díl,	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090136 - Method F	rep: Aq						Wat	ter				
Duplicate (8090136-DUP1)			Source: A	809116-01		Analyzed:	09/12/08 17	:45				
EPA 150.I												
pН	8.90			pH Units	1		8.91			0.112	10%	
pH Temperature	23.9			ij	п		24.0			0.418	200%	
Reference (8090136-SRM1)						Analyzed: (09/12/08 17	:40				
EPA 150.1												
рН	7.96			pH Units	1	8.00		99.5 78.7	75-101.25	%		
Reference (8090136-SRM2)						Analyzed: {	09/12/08 17	:46				
EPA 150.1											,.,	
pН	6.03	 .		pH Units	1	6.00		100 '8.3	33-101.66	9,		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional Ch	nemistry	/ Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8090188 - EPA 1664							Wa	ter				
Blank (8090188-BLK1)						Analyzed:	09/18/08 11	1:47				
EPA 1664										-		
HEM (Oil and Grease)	ND		5.00	mg/L	1		vrome.					
Blank (8090188-BLK2)						Analyzed:	09/18/08 16	5:34				
EPA 1664-SGT								,,,,,				
SGT-HEM (Non-polar Material)	ND	***	5.00	mg/L	1							
LCS (8090188-BS1)						Analyzed:	09/18/08 11	1:47				
EPA 1664												
HEM (Oil and Grease)	36.6		•	mg/L	1	40.0		92	78-114%		-	
LCS (8090188-BS2)						Analyzed:	09/18/08 16	5:34				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	17.5			mg/L	1	20.0		88	54-132%			
Matrix Spike (8090188-MS1)			Source: A	809116-01		Analyzed: (09/18/08 11	:47				
EPA 1664												
HEM (Oil and Grease)	57.3			mg/L	1	37.7	17.7	105	78-114%			
Matrix Spike (8090188-MS2)			Source: A	809116-01		Analyzed: (09/18/08 16	5:34				
EPA 1664-SGT											- 1/1-15	
SGT-HEM (Non-polar Material)	23.0			mg/I.	1	18.9	5,85	91 (64-132%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

09/28/08 11:46

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Cor	mpounds by EPA 624			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8090116			-				
A809116-01	Water	EPA 624	09/12/08 10:00	09/12/08 11:33	5mL/5mL	5mL/5mL	1.00
		Semivolatile Org	janic Compounds by	y EPA 625 Modified (S	IM Analysis)		
Prep: EPA 3510C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8090160							
A809116-01	Water	EPA 625 SIM	09/12/08 10:00	09/15/08 12:26 、	1050mL/5mL	1000mL/5mL	0.95
			Total Metals by EP	A 200.8 (ICPMS)			
Prep: EPA 3015					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8090197			···				
A809116-01	Water	EPA 200.8	09/12/08 10:00	09/17/08 14:10	45mL/50mL	45mL/50mL	1.00
Batch: 8090246 A809116-01RE2	Water	EPA 200.8	09/12/08 10:00	09/22/08 08:59	10mL/50mL	45mL/50mL	4.50
			Conventional Chem	nistry Parameters			
Prep: EPA 1664					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8090188							
A809116-01	Water	EPA 1664	09/12/08 10:00	09/17/08 10:34	1N/A/1N/A	1N/A/ImL	NA
A809116-01	Water	EPA 1664-SGT	09/12/08 10:00	09/17/08 10:34	1N/A/1N/A	IN/A/1mL	NA
Prep: Method Prep	: Aq				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8090136							
A809116-01	Water	EPA 150.1	09/12/08 10:00	09/12/08 11:51	20mL/20mL	20mL/20mL	NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 14 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 09/28/08 11:46

Notes and Definitions

Qualifiers:

Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not detected in reported client samples. Data quality is not affected.

Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-02 Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

S-07 Surrogate recovery above control limits. Related target analytes were not detected, or detected below reporting limits, therefore data quality is not affected.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Batch Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike

Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 15 of 16

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

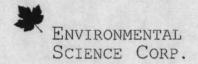
Reported: 09/28/08 11:46

APEX LABS				_	CHAIN OF CUSTODY	7	z	T.	ರ	<u>~</u>	· <u>D</u>	á					ä	ÇŢ,	7111608H.	<u>=</u>		N	•	CDC	7	J		
1233 S.F. Godda Place, Tyank OR 97231 Ph 504-718-2323 Fac 503-718-0333	(9722)	Pt: 503-7	8-2323	Feet: 51	7.5	20.	5	- }																				
CHANGE CORNERAL	zent.	Project May	(Mgr.							Zijoč	Pojest Naire:		Sal	~5	É	PO.			Poetes #	#	~	1-000-000-1		0	ď	₽ G/ -	ń	
Address Some N. Cheener	727%	A 20 &	PH		Q.		βŞ	Stor. 76	97	1 15		11.	3'03'-	2,2	7.0 2.0 7.7		Erral	ĺ.,							1			
Surpedor Bak Alharaw	3			82.5								邈			ANALYSISBEDUEST	100		*				nt.	3					£17
SAMAPLE	TVB1D#	arve Dvie	ZUITARE	A OF COSTAINELS	MALLE DE	A)-HTTY-M	XXTS	ESEC HEADY ACCE	ESCO HIVE ADO	RSWi AOC?	ESTO SIM PAHA	BIST BCB*	हा अस्तर प्रस्कृत हो। स्टास्ट्र प्रस्कृत स्टा		Printly Awals (13) Al. Str. As, the tie, Cl (2), Cy, Co, Co, Te, Fi	The self, that the self self.	ાંદાના પ્રાંતાના લા	TYDE COPE	2,002 YJ 240CI	1242 193	ELY CTA	इ.इ.६५ ६१ इ	पत । एडा छन्	12 1 20 1 64 103 1 64 103 1 64 103 1 64		12 5 5 5 6 5 5 6 5 5 6 5 6 5 6 6 6 6 6 6		Chukhawe
7-7-09-12-08	8	77-12/23	L. L.	2	-	_				1	-	┢						1	犮	∇	K	忟	ľΣ			X	ĺΧ	×
Sub Car 、 区 、					-	-	<u> </u>		È	一	-	├-	 	⊢		T	Г	1	1	1	1	1	1	1	1		T	
			749710			٠				-		-	-				Ι.	Г	-	┢	\vdash	-		Π	Γ	Π	i	
		_	_		_	ļ	-		T	İ	H	┢	<u> </u>	⊢					-	\vdash	-	-	Τ	Γ	Ī		7	
	_				H	ļ	<u> </u>	L		m		-	\vdash		_		T	T	T	\vdash	1	T	T	Á	Т		Т	
		_			_	<u> </u>	_			Γ	-			<u> </u>	*******	Γ.		Γ	\vdash	\vdash	\vdash	_	†	Γ		Γ	Π	
				-	┝		Ŀ			_	-		┝	⊢	_			†	├~	┢	\vdash	1	M				Γ	
-	<u> </u>				_	-	mapping.		*****	40000			-	H						\vdash	-	-	\vdash	Τ.	1	1	Γ	
	-	_		-	_	 				-	<u> </u>	-	•	<u> </u>	_	-					 	-		-			Γ	
				_	-	H			Π	-	\vdash	\vdash	nex	 -	ļ.,				1		-	_	İ		Γ			
Metter Tier Award Time IAN 1910 Broices Lys	f. howard T	mental	3-10 Br	oitess D	3				Seg	38.	SPECIAL INSTRUCTIONS:	5	Š	٠.		ł		1	1	1	1	1	1	1	1	1	Γ	
	34.51R	HE (72 H.R.																								
TAT Requested (circle)	4 DAY) Aging		Others	4	긫	Rush																					
SANKE	SARE	SAMPLES AIRE HELD FOR IN DAYS	H DAYS		-																							
all Menes	See 7	DAR 9-42-0-5 RECEIVED SITE		in]	1		()		NEL!	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RELINGLESIEND BYS Syppine:	Ë				ž				- 12	RECEIVED BY: Styrator	3 .	Ę	}				
Bob Gilluson	27	10:01	Į Č	CARLO O'BRILL	0	Ø	14.	6	ž.	Mistal Name	44				g.	Ters.		1		[Personal Market	Name of		1				
CHECHAE GENERAL			Canyace	Joe of	. 1			·	Catolici	3					<i>'</i>	l			l	-	Central	į.					1	
the same of the sa	Ì								l		ı			ı		ŀ	l	l	l	l	l	l	l	l	l	1	A CHARLES	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place

Tigard, OR 97223

Report Summary

Wednesday September 24, 2008

Report Number: L365073 Samples Received: 09/13/08 Client Project: A809116

Description: A809116

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesigate to call Representative

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2377, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, MC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WY - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Jarred Wars

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

1 Samples Reported: 09/24/08 15:01 Printed: 09/24/08 15:08

Page 1 of 7



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 24, 2008

Darwin Thomas Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223

Date Received : Description :

September 13, 2008 A809116

Sample ID

T-7-09-12-08 SUB CAT B

Collected By : Collection Date : 09/12/08 10:00

Site ID :

Project # : A809116

ESC Sample # : L365073-01

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Cyanide	BDL	0.0050	mg/l	4500CN-E	09/16/08	1
Sulfide	30.	1.0	mg/l	4500-S2 D	09/18/08	20
Mercury	BDL	0.00020	mg/l	245.1	09/18/08	1
Tin	BDL	0.020	mg/l	6010B	09/17/08	1
Pesticide/PCBs Chlordane Pest/PCBs Surrogates	BDL	0.025	mg/l	608	09/24/08	5
Decachlorobiphenyl Tetrachloro-m-xylene	48.6 31.5		% Rec. % Rec.	608 608	09/24/08 09/24/08	5 5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 09/24/08 15:01 Printed: 09/24/08 15:08

Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte		Qualifier
L365073-01	Chlordane	•	0

Attachment B Explanation of QC Qualifier Codes

Qualifier

Meaning

0

(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

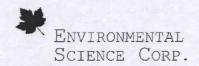
 Relates to how close together the results are and is represented by Relative Percent Differrence.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 09/24/08 at 15:08:16

TSR Signing Reports: 358 R5 - Desired TAT

Always log metals by 6010; Log A# as project number; Always log dry weight for soils Use APEXBOR-NERENBERG or APEXBOR-DARWIN Always log CN water samples under method 335.4 as drinking water.

Sample: L365073-01 Account: APEXBOR Received: 09/13/08 09:00 Due Date: 09/18/08 00:00 RPT Date: 09/24/08 15:01 SV608 = Chlordane only with an RDL no higher than 0.03 mg/L.



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

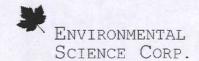
Tigard, OR 97223

Quality Assurance Report Level II

L365073

September 24, 2008

Analyte	Result	Laboratory Blan Units	Date Analyzed	Batch
Mercury	< .0002	mg/1	09/18/08 15:17	WG383344
Chlordane	< .005	mg/l	09/16/08 20:48	WG383400
Cyanide	< .005	mg/l	09/16/08 08:55	WG383465
Tin	< .02	mg/l	09/17/08 03:26	WG383741
Sulfide	< .05	mg/l	09/18/08 15:56	WG383992
Analyte	Units	Duplicate Result Duplica	ate RPD Limit	Ref Samp Batch
Mercury	mg/l	0.00 0.00	0.0020	L364674-01 WG383344
Cyanide Cyanide		0.00 0.00 0.00 0.00	0.00 20 0.00 20	L364658-03 WG383465 L364075-03 WG383465
Tin	mg/l	0.00 0.00	0.00 20	L364869-01 WG383741
Sulfide Sulfide		0.00 0.00 0.00 0.00	0.00 20 0.00 20	L364410-01 WG383992 L365029-03 WG383992
Analyte		atory Control S Known Val	Sample % Rec	Limit Batch
Mercury	mg/1	.003	0.00255 85.0	85-115 WG383344
Cyanide	mg/l	.1	0.104 104.	90-110 WG383465
Tin	mg/l	1.13	1.13 100.	85-115 WG383741
Sulfide	mg/1).508 102.	90=110 WG383992
Analyte	Laboratory Units LC	Control Sample SD Res Ref Res	e Duplicate RPD Limit %R	ec Batch
Cyanide.	mg/1	0.104 0.104	0.00 20 10	4 WG383465
Sulfide	mg/l	0.483 0.508	5.05 20 97	WG383992
Analyte	Units M	Matrix Spike S Res Ref Res	TV % Rec Limi	t Ref Samp Batch
Mercury	mg/1	0.0025 0.00	.003 84.0 70-1	30 L364674-01 WG383344
Cyanide	mg/l	0.198 0.00	.2 99.0 90-1	10 L364530-05 WG383465
rin	mg/l	1.12 0.00	1.13 99.1 75-1	25 L364869-01 WG383741
sultide	-1	0.955 0.00	95-5-90-1	10 L365092-03 WG383992
Analyte	Mat Units MS	rix Spike Dupli D Res Ref Res	cate: RPD Limit %R	ec Ref Samp Batch
Mercury	mg/1	0.0025 0.0025	1.18 20 85	.0 L364674-01 WG38334
Cyanide	mg/l	0.202 0.198	2.00 20 10	1. L364530-05 WG38346
iii allae galaidh agus da bhaile an ann an an A Pin	mg/1	1.13 1.12	0.889 20 10	0. L364869-01 WG38374



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L365073

September 24, 2008

Analyte	Matrix Spike Dupl Units MSD Res Ref Res		Limit %Rec	Ref Samp	Batch
---------	--	--	------------	----------	-------

Batch number /Run number / Sample number cross reference

WG383465: R466885: L365073-01 WG383400: R468788: L365073-01 WG383741: R469404: L365073-01 WG383992: R470364: L365073-01 WG383344: R470646: L365073-01

^{* *} Calculations are performed prior to rounding of reported values .



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Apex Laboratories Darwin Thomas 12232 S.W. Garden Place

Tigard, OR 97223

Quality Assurance Report Level II

L365073

September 24, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

SUBCONTRACT ORDER

Apex Laboratories A809116

SENDING LABORATORY:

Apex Laboratories

12232 S.W. Garden Place

Tigard, OR 97223

Phone: (503) 718-2323

Fax: (503) 718-0333

Project Manager: Darwin Thomas

RECEIVING LABORATORY:

ESC

12065 Lebanon Road

Mt. Juliet, TN 37122

Phone:(800) 767-5859

Fax: (615) 758-5859

Caution; ODOR

Sample Name: T-7-09-12-08 Sub Ca	t 'B'	Water Samp	led: 09/12/08 10:00	(A809116-01)
Analysis	Due	Expires	Comments L3	35073-01
245.1 Hg (Mercury) - Total (H2O)	09/19/08 17:00	10/10/08 10:00	limit 0.1 mg/L	<u>-</u>
608 PCBs	09/19/08 17:00	09/19/08 10:00	Chlordane only, limit 0.03 T53076	mg/L Template #
Cyanide, Total	09/19/08 17:00	09/26/08 10:00	limits 1.2 mg/L	
Sn (Tin) - 200.7 - Total	09/19/08 17:00	03/11/09 10:00	limts 0.146 mg/L	
Sulfide (376,2)	09/19/08 17:00	09/19/08 10:00	4.0 mg/L	
Containers Supplied: . (B)1 L Amber Glass - Non Preserved				
(C)1 L Amber Glass - Non Preserved		and the second s		
(E)500 mL Poly - NaOH				
(F)250 mL Poly - NaOH/Zinc Acetate				
(N)250 mL Poly - Nitrie (HNO3)				

Released By Date Received By Date

Released By Date

Received By Date

Received By Date



Water Pollution Control Laboratory

	valet i onution	Control Laboratory	
6543 North Burlington Aven	ue, Portland, Oregon 97203-5	452 Dean Marriott, Direct	or Dan Saltzman, Commissione
	BATCH DISCHAR	GE REQUEST FORM	
Waste Generator Information		Permit Contact Information	
Source Name	Cascade General	Name	Lian Jewell
		Company Name	Cascade General
Source Address	5555 N. Channel Ave. Portland, OR	Address	5555 N. Channel Ave
	97217		Portland, OR 97217
		Telephone Number	503/247-1806
		Facsimile Number	503/247-6050
Batch Information	CWTA	Email Address	ljewell@vigorindustrial.net
Batch Number:		Proposed Discharge Volume:*	55,000 gal
Request Date/Time:	11/17/06 11:00 a.m.	Actual Discharge	
1		Volume:	
Date Proposed:	11/20/06	Sampling Location:	T-17, BWTP
Duration of Discharge:	Start:	Stop:	Sampled? YES NO
Detail the Process(es) Ger	nerating Wastewater & W	-	•
CWT-A	8		
Discharge flow will be st	topped if heavy rain deve	elops. Flow will be held	d below 50 gpm.
Are the analysis sheets, Q	A/QC and chain of custoo	ly attached? YE	S or NO (circle one)
City Use Only			•*
Batch discharge approval	: YES or NO	Date of Approval:	/ /2006
	y McDaniel		
•			
Batch Discharge Denied	Due to the Following:		
	ty of law that this document an		
	dance with a system designed		
	tion submitted. Based on my in ctly responsible for gathering t		
	d belief, true, accurate, and co		
	nformation, including the possi		
5	,	, , , , , , , , , , , , , , , , , , , ,	<u> </u>

Signature: Date:

	CI	IY OF	PORTLA	ND
INDU	JSTRIAL	WASTI	EWATER	DISCHARGE
	SELF-N	IONITO	DRING R	EPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

October 2006

For Industrial So	urce Control Division Use Only	
	Org 2159	
and ad/Dessioned	Data Entanad	

Date Postmarked/Received **Date Entered**

Entered By:

Comments:

SAMPLE DATE POINT OF COMPLIANCE SAMPLE TYPE								
10/25/2006	CW	VT2A	GRAB					
PARAMETER	ANALYSIS METHOD							COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	9.7 mg/L	2.0	N/A	N/A			
HEM Oil and Grease (Non-Polar)	EPA 1664	3.6 mg/L	2.0	110 mg/L	N/A			
PH	EPA 150.1	9.56 SU		5.0 - 11.5	N/A			
Cyanide (Total)	SM 4500	ND	0.0030	1.2 mg/L	N/A			
Sulfide (Dissolved)	EPA 376.1	ND	1.0	4.0 mg/L	N/A			
1,2-Dichloroethane	EPA 624	ND	0.0005	0.50 mg/L	N/A			
2,4-Dinitrotoluene	EPA 625	ND	0.0044	0.13 mg/L	N/A			
Acrylonitrile	EPA 624	ND	0.0100	1.0 mg/L	N/A			
Chlordane	EPA 625	ND	0.0029	0.03 mg/L	N/A			
Chlorobenzene	EPA 624	ND	0.0005	0.20 mg/L	N/A			
Chloroform	EPA 624	ND	0.0005	0.20 mg/L	N/A			
Nitrobenzene	EPA 625	ND	0.0044	2.0 mg/L	N/A			
Pentachlorophenol	EPA 625	ND	0.0220	0.04 mg/L	N/A			
Trichloroethylene	EPA 624	ND	0.0005	0.20 mg/L	N/A			

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-1. Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TY	PE		
10/25/2006	10/25/2006 CWT2A		CWT2A COMPOSITE			
PARAMETER	ANALYSIS METHOD			DAILY	LIMITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.020	0.249 mg/	L 0.206 mg/L	
Arsenic (Total)	EPA 200.7	ND	0.010	0.162 mg/	L 0.104 mg/L	
Cadmium (Total)	EPA 200.7	ND	0.003	0.474 mg/	L 0.0962 mg/L	
Chromium (Total)	EPA 200.7	ND	0.003	5.0 mg/	L 3.07 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.010	0.192 mg/	L 0.124 mg/L	
Copper (Total)	EPA 200.7	0.045 mg/L	0.003	3.7 mg/	L 1.06 mg/L	
Lead (Total)	EPA 200.7	0.007 mg/L	0.003	0.7 mg/	L 0.283 mg/L	
Mercury (Total)	EPA 245.7	ND	0.0000	0.00234 mg/L	0.000739 mg/L	
Molybdenum (Total)	EPA 200.7	ND	0.003	1.4 mg/	L N/A	
Nickel (Total)	EPA 200.7	ND	0.020	2.8 mg/	L 1.45 mg/L	
Selenium (Total)	EPA 200.7	ND	0.10	0.6 mg/	L 0.408 mg/L	
Silver (Total)	EPA 200.7	ND	0.010	0.120 mg/	L 0.0351 mg/L	
Tin (Total)	EPA 200.7	ND	0.040	0.409 mg/	L 0.120 mg/L	
Titanium (Total)	EPA 200.7	ND	0.050	0.0947 mg/	L 0.0618 mg/L	
Vanadium (Total)	EPA 200.7	ND	0.010	0.218 mg/	L 0.0662 mg/L	
Zinc (Total)	EPA 200.7	0.048 mg/L	0.003	2.87 mg/	L 0.641 mg/L	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date	2:



CLIENT: Cascade General

ATTN: Bob Collinson

P.O. Box 4367 Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test - A

Subcat. A

PROJECT NUMBER: 85806

PHONE: (503) 247-1634

FAX: (503) 247-1680

SUBMITTED: 10/25/06 11:43

REPORT DATE: 11/03/06 08:36

REPORT NUMBER: 6102506

PAGE: 1 OF 19

CISAMPLE	CLIENTS ID#		DAT	E TIME	MATRIX			
6102506-01	T-17-10-25-06		10/2	25/2006 0900	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6102506-01	SAMPLE ID: T-17-	10-25-06						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	ND	mg/L	0.0030	DAU	10/31/2006 14:16	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	3.6	mg/L	2.0	JRW	10/31/2006 12:57	A-01a
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	9.7	mg/L	2.0	JRW	10/31/2006 12:57	A-01d
PH	EPA 150.1/9040	рН	9.56	SU		DAU	10/25/2006 14:03	
		TEMPERATURE (C)	17.4	SU				
SULFIDE	EPA 376.1	SULFIDE	ND	mg/L	1.0	DAU	10/30/2006 09:03	
Total Mercury b	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEŁ	11/01/2006 15:12	
Total Metals by	Inductively Coupled	I Plasma						
ANTIMONY - ICP	EPA 200.7/6010B	ANTIMONY	ND	mg/L	0.020	KEL	10/27/2006 13:18	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.010	KEL	10/27/2006 13:39	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	10/27/2006 13:39	
CHROMIUM - ICP		CHROMIUM	ND	mg/L	0.005	KEL	10/27/2006 13:39	
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	10/27/2006 13:24	
COPPER - ICP		COPPER	0.045	mg/L	0.005	KEL	10/27/2006 13:24	
LEAD - ICP		LEAD	0.007	mg/L	0.005	KEL	10/27/2006 13:39	
MOLYBDENUM -		MOLYBDENUM	ND	mg/L	0.005	KEL	10/27/2006 13:24	
NICKEL - ICP		NICKEL	ND	mg/L	0.020	KEL	10/27/2006 13:24	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	10/27/2006 13:39	
SILVER - ICP	man.	SILVER	ND	mg/L	0.010	KEL	10/27/2006 13:15	
TIN - ICP		TIN	ND	mg/L	0.040	KEL	10/27/2006 15:50	
TITANIUM - ICP		TITANIUM	0.24	mg/L	0.050	KEL	10/27/2006 13:18	
VANADIUM - ICP		VANADIUM	ND	mg/L	0.020	KEL	10/27/2006 13:18	
ZINC - ICP		ZINC	0.048	mg/L	0.003	KEL	10/27/2006 13:24	-

Volatile Organics by Gas Chromatography/Mass Spectroscopy

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	1/03/06 08:3	6 REPORT I	NUMBER:6102	506			PAGE: 2	2 OF 19
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6102506-01	SAMPLE ID: T-17-1	10-25-06						
Volatile Organic	s by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	JRW	10/31/2006 10:23	
		BROMODICHLOROMETHANE	ND	mg/L	0.0005			
		CHLOROBENZENE	ND	mg/L	0.0005			
		CHLOROFORM	ND	mg/L	0.0005			
		1,2-DICHLOROETHANE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	116 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	113 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	54.5 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	104 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chro	omatography/Mass Spectroscopy						
ACID SEMIVOLS 625	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0220	DM	10/26/2006 06:35	
		Surrogate: Phenol-d6	26.1 %	%RECOVERY	50-150			
		Surrogate: 2,4,6-Tribromophenol	93.1 %	%RECOVERY	50-150			
B/N SEMIVOL 625		2,4-DINITROTOLUENE	ND	mg/L	0.00440	ZZZ	10/26/2006 06:35	
		NITROBENZEN E	ND	mg/L	0.00440			
		Surrogate: 2-Fluorobiphenyl	69.2 %	%RECOVERY	50-150			
		Surrogate: Nitrobenzene-D5	50.0 %	%RECOVERY	50-150			
		Surrogate: p-terphenyl-D14	79.0 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chro	omatography/ECD						
PESTICIDES 625	EPA 625	ALDRIN	ND	mg/L	0.00293	DM	10/30/2006 12:18	
		ALPHA-BHC	ND	mg/L	0.00147			
		BETA-BHC	ND	mg/L	0.00293			
		GAMMA-BHC (LINDANE)	ND	mg/L	0.00147			
		DELTA-BHC	ND	mg/L	0.00293			
		4,4-DDD	ND	mg/L	0.00587			
		4,4-DDE	ND	mg/L	0.00293			
		CHLORDANE	ND	mg/L	0.00293			
		4,4-DDT	ND	mg/L	0.00587			
		DIELDRIN	ND	mg/L	0.00293			
		ENDOSULFAN I	ND	mg/L	0.00293			
		ENDOSULFAN II	ND	mg/L	0.00587			
		ENDOSULFAN SULFATE	ND	mg/L	0.00587			
		ENDRIN	ND	mg/L	0.00293			
		ENDRIN ALDEHYDE	ND	mg/L	0.00733			
		ENDRIN KETONE	ND	mg/L	0.00733			
		HEPTACHLOR	ND	mg/L	0.00293			
		HEPTACHLOR EPOXIDE	ND	mg/L	0.00293			
		ALPHA-CHLORDANE	ND .	mg/L	0.00293			
		METHOXYCHLOR	ND	mg/L	0.00733			
•		GAMMA-CHLORDANE	ND	mg/L	0.00293			
		TOXAPHENE .	ND	mg/L	0.0587			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 3 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J25008 - General Prep	aration									
QC SAMPLE: Duplicate (6J25008-DUP1)			Source: 6102	2507-01	Prepared 8	& Analyzed	i: 10/25/06			
рН	7.71 .		SU		7.75			0.517	10	
TEMPERATURE (C)	17.7		n		17.7			0.00	200	
QC SAMPLE: Reference (6J25008-SRM1))				Prepared 8	& Analyzed	1: 10/25/06			
pH	4.98	·	SU	5.00		99.6	97.5-102			
QC SAMPLE: Reference (6J25008-SRM2))				Prepared 8	& Analyzed	1: 10/25/06			
pH	7.90		SU	8.00	· · · · · · · · · · · · · · · · · · ·	98.8	97.5-102			
BATCH: Batch 6J31010 - Water Extrac	tion	w								
QC SAMPLE: Blank (6J31010-BLK1)					Prepared 8	& Analyzec	1: 10/31/06			
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
TOTAL OIL AND GREASE	ND	2.0	"							
QC SAMPLE: LCS (6J31010-BS1)					Prepared &	& Analyzed	i: 10/31/06			
NONPOLAR OIL & GREASE	3.5	2.0	mg/L	8.07		43.4	66-114			A-01c
TOTAL OIL AND GREASE	10.9	2.0	**	16.1		67.7	79-114			A-01
QC SAMPLE: LCS Dup (6J31010-BSD1)					Prepared a	& Analyzed	1: 10/31/06			
NONPOLAR OIL & GREASE	4.3	2.0	mg/L	8.07		53.3	66-114	20.5	24	A-01c
TOTAL OIL AND GREASE	12.2	2.0	"	16.1		75.8	79-114	11.3	18	A-01
BATCH: Batch 6J31013 - General Prep	aration									
QC SAMPLE: Blank (6J31013-BLK1)					Prepared 8	& Analyzec	l: 10/31/06			
CYANIDE, TOTAL	ND	0.0030	mg/L							

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 4 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J31013 - General Preparent	aration									
QC SAMPLE: Duplicate (6J31013-DUP1)		5	Source: 6102	506-01	Prepared	& Analyzed	: 10/31/06			
CYANIDE, TOTAL	ND	0.0030	mg/L		ND				20	
QC SAMPLE: Reference (6J31013-SRM1)					Prepared	& Analyzed	: 10/31/06			
CYANIDE TOTAL	0.0793	0.0030	ma/i	0.0800		99 1	90-110			



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 5 OF 19

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample	e/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6K01004 - ***Metals Pre	p***									
QC SAMPLE:	Blank (6K01004-BLK1)					Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	-CCB1)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	-CCB2)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	-CCB3)				Prepared	& Analyzed	11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	-CCB4)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004					Prepared	& Analyzed	: 11/01/06			
MERCURY.		ND	0.000050	mg/L							
QC SAMPLE:	Reference (6K01004-SRM1)					Prepared -	& Analyzed				
MERCURY		0.00020	0.000050	mg/L	0.00020		100	90-110			
QC SAMPLE:	Reference (6K01004-SRM2)					Prepared	& Analyzed	: 11/01/06			
MERCURY		0.00021	0.000050	mg/L	0.00020		105	90-110			
QC SAMPLE:	Reference (6K01004-SRM3)					Prepared	& Analyzed	: 11/01/06			
MERCURY		0.00024	0.000050	mg/L	0.00020		120	90-110			SRM-1
QC SAMPLE:	Reference (6K01004-SRM4)					Prepared -	& Analyzed	: 11/01/06			
MERCURY		0.00024	0.000050	mg/L	0.00020		120	90-110			SRM-1



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 6 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J27006 - ***Metals P	rep***									
QC SAMPLE:	Blank (6J27006-BLK1)					Prepared a	& Analyzed	: 10/27/06			
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (6J270	06-CCB1)				Prepared a	& Analyzed	: 10/27/06			
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Calibration Blank (6J270	06-CCB2)				Prepared 6	& Analyzed	: 10/27/06			
SILVER		ND	0.009	mg/L							
QC SAMPLE:	Reference (6J27006-SRM	11)				Prepared 6	& Analyzed	: 10/27/06			
SILVER		0.478	0.009	mg/L	0.500		95.6	85-115			
QC SAMPLE:	Reference (6J27006-SRM	12)				Prepared a	& Analyzed	: 10/27/06			
SILVER		0.449	0.009	mg/L	0.500		89.8	85-115			
BATCH: Batc	h 6J27007 - ***Metals P	rep***									
QC SAMPLE:	Blank (6J27007-BLK1)					Prepared 6	& Analyzed	: 10/27/06			
ANTIMONY		ND	0.018	mg/L							
TITANIUM		ND	0.045	"							
VANADIUM		ND	0.018								
QC SAMPLE:	Calibration Blank (6J270		.,			Prepared of	& Analyzed	: 10/27/06			
ANTIMONY		ND	0.018	mg/L							
TITANIUM VANADIUM		ND ND	0.045 0.018	,,							
	Calibratian Blank (0.1070		3.010			Dronored	0 Apoluz-4	. 10/07/00			
QC SAMPLE:	Calibration Blank (6J270		0.040			Prepared 6	& Analyzed	: 10/2//06			
ANTIMONY TITANIUM		ND ND	0.018 0.045	mg/L "							
VANADIUM		ND	0.018	"							



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 7 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J27007 - ***Metals Pre	p***									
QC SAMPLE:	Reference (6J27007-SRM1)				Prepared	& Analyzed	: 10/27/06			
ANTIMONY		1.05	0.018	mg/L	1.00		105	85-115			
TITANIUM		1.03	0.045	"	1.00		103	85-115			
VANADIUM		1.01	0.018	11	1.00		101	85-115			
QC SAMPLE:	Reference (6J27007-SRM2)				Prepared of	& Analyzed	: 10/27/06			
ANTIMONY		0.996	0.018	mg/L	1.00		99.6	85-115			
TITANIUM		1.01	0.045	"	1.00		101	85-115			
VANADIUM		0.921	0.018	"	1.00		92.1	85-115			
BATCH: Batc	h 6J27008 ***Metals Pre	p***									
QC SAMPLE:	Blank (6J27008-BLK1)					Prepared a	& Analyzed	: 10/27/06			
COBALT		ND	0.0090	mg/L							
COPPER		ND	0.004	٠,							
MOLYBDENUM		ND	0.004	**							
NICKEL		ND	0.018	"							
ZINC		ND	0.003	"							
QC SAMPLE:	Calibration Blank (6J27008	-CCB1)				Prepared a	& Analyzed	: 10/27/06			
COBALT		ND	0.0090	mg/L							
COPPER		ND	0.004								
MOLYBDENUM		ND	0.004	•							
NICKEL		ND	0.018								
ZINC		ND	0.003								
QC SAMPLE:	Calibration Blank (6J27008	-CCB2)				Prepared a	& Analyzed	: 10/27/06			
COBALT		ND	0.0090	mg/L							
COPPER		ND	0.004	٠,							
MOLYBDENUM		ND	0.004	"							
NICKEL		ND	0.018	"							
ZINC		ND	0.003	**							



REPORT DATE: 11/03/06 08:36 REPORT NUMBER:6102506 PAGE: 8 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J27008 - ***Metals Prep)***									
QC SAMPLE:	Duplicate (6J27008-DUP1)			Source: 610	2506-01	Prepared &	& Analyzed	: 10/27/06			
COBALT		ND	0.010	mg/L		ND				15	
COPPER		0.045	0.005	"		0.045			0.00	15	
MOLYBDENUM		ND	0.005	n		ND				15	
NICKEL		ND	0.020	11		ND				15	
ZINC		0.032	0.003	"		0.048			40.0	15	A-01b
QC SAMPLE:	Matrix Spike (6J27008-MS1)			Source: 6102	2506-01	Prepared 8	& Analyzed	: 10/27/06			
COBALT		0.119	0.010	mg/L	0.111	ND	107	80-120			
COPPER		0.162	0.005		0.111	0.045	105	80-120			
MOLYBDENUM		0.114	0.005		0.111	ND	103	80-120			
NICKEL		0.123	0.020	"	0.111	ND	111	80-120			
ZINC		0.146	0.003	**	0.111	0.048	88.3	80-120			
QC SAMPLE:	Reference (6J27008-SRM1)					Prepared 8	& Analyzed	: 10/27/06			
COBALT		1.05	0.0090	mg/L	1.00		105	85-115			
COPPER		1.01	0.004	**	1.00		101	85-115			
MOLYBDENUM		1.03	0.004	"	1.00		103	85-115			
NICKEL		1.06	0.018	11	1.00		106	85-115			
ZINC		1.15	0.003	"	1.00		115	85-115			
QC SAMPLE:	Reference (6J27008-SRM2)					Prepared 8	& Analyzed	: 10/27/06			
COBALT		1.04	0.0090	mg/L	1.00		104	85-115			
COPPER		1.06	0.004	н	1.00		106	85-115			
MOLYBDENUM		1.04	0.004		1.00		104	85-115			
NICKEL		1.04	0.018		1.00		104	85-115			
ZINC		1.14	0.003	"	1.00		114	85-115	,		



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 9 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J27011 - ***Metals Pre	ep***								· •	
QC SAMPLE:	Blank (6J27011-BLK1)					Prepared	& Analyzed	1: 10/27/06			
ARSENIC		ND	0.009	mg/L							
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004	"							
LEAD		ND	0.004	"							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (6J27011	I-CCB1)				Prepared	& Analyzed	: 10/27/06			
ARSENIC		ND	0.009	mg/L							
CADMIUM		ND	0.003	n							
CHROMIUM		ND	0.004	**							
LEAD		ND	0.004	"							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (6J27011	I-CCB2)				Prepared	& Analyzed	1: 10/27/06			
ARSENIC		ND	0.009	mg/L							
CADMIUM		ND	0.003	11							
CHROMIUM		ND	0.004								
LEAD		ND	0.004	"							
SELENIUM	,	ND .	0.090								
QC SAMPLE:	Duplicate (6J27011-DUP1)			Source: 6102	2506-01	Prepared -	& Analyzed	: 10/27/06			
ARSENIC		ND	0.010	mg/L		ND				15	
CADMIUM		ND	0.003	**		ND				15	
CHROMIUM		ND	0.005	"		ND				15	
LEAD		ND	0.005	**		0.007				15	
SELENIUM		ND	0.10	"		ND				15	
QC SAMPLE:	Matrix Spike (6J27011-MS	1)		Source: 610	2506-01	Prepared	& Analyzed	: 10/27/06			
ARSENIC		0.111	0.010	mg/L	0.111	ND	100	80-120			
CADMIUM		0.116	0.003	**	0.111	ND	105	80-120			
CHROMIUM		0.122	0.005	**	0.111	ND	110	80-120			
LEAD		0.122	0.005		0.111	0.007	104	80-120			
SELENIUM		0.104	0.10	"	0.111	ND	93.7	80-120			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 10 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bato	:h 6J27011 - ***Metals Pre	o***									
QC SAMPLE:	Reference (6J27011-SRM1)					Prepared	& Analyzed:	10/27/06			
ARSENIC		1.02	0.009	mg/L	1.00		102	85-115			
CADMIUM		1.05	0.003	**	1.00		105	85-115			
CHROMIUM		1.05	0.004	H	1.00		105	85-115			
LEAD		1.06	0.004	"	1.00		106	85-115			
SELENIUM		1.03	0.090	n	1.00		103	85-115			
QC SAMPLE:	Reference (6J27011-SRM2)					Prepared a	& Analyzed:	10/27/06			
ARSENIC		1.05	0.009	mg/L	1.00		105	85-115			
CADMIUM		1.08	0.003	"	1.00		108	85-115			
CHROMIUM		1.06	0.004		1.00		106	85-115			
LEAD		1.09	0.004		1.00		109	85-115			
SELENIUM		1.06	0.090	II .	1.00		106	85-115			
BATCH: Batc	:h 6J27014 - ***Metals Prej	o***									
QC SAMPLE:	Blank (6J27014-BLK1)					Prepared 8	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6J27014-	CCB1)				Prepared 8	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6J27014-	CCB2)				Prepared 8	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L		3	<u> </u>				
QC SAMPLE:	Reference (6J27014-SRM1)					Prepared 8	& Analyzed:	10/27/06			
TIN		1.06	0.036	mg/L	1.00		106	90-110			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 11 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J27014 - ***Meta	ls Prep***									
QC SAMPLE: Reference (6J27014-	SRM2)				Prepared	& Analyzed	: 10/27/06			
TIN	1.10	0.036	mg/L	1.00		110	90-110			



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 12 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J31007 - Volatiles	<u> </u>									
QC SAMPLE: Calibration Blank (6J310	07-CCB1)				Prepared 8	& Analyzed:	10/31/06			
ACRYLONITRILE	ND	0.0100	mg/L							
BROMODICHLOROMETHANE	ND	0.0005	"							
CHLOROBENZENE	ND	0.0005	n							
CHLOROFORM	ND	0.0005								
1,2-DICHLOROETHANE	ND	0.0005	**							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.01164		"	0.00809		144	50-150			
Surrogate: Fluorobenzene	0.01132		"	ō.00809		140	50-150			
Surrogate: Chlorobenzene-d5	0.004460		"	ō.00809		55.1	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006900		"	0.00809		85.2	50-150			
QC SAMPLE: Calibration Blank (6J310	07-CCB2)			_	Prepared 8	& Analyzed:	10/31/06			
ACRYLONITRILE	ND	0.0100	mg/L							
BROMODICHLOROMETHANE	ND	0.0005								
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	11							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.01156		"	0.00809		143	50-150			
Surrogate: Fluorobenzene	0.009030		"	0.00809		112	50-150			
Surrogate: Chlorobenzene-d5	0.004710		"	0.00809		58.2	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008340		"	Õ.00809		103	50-150			
QC SAMPLE: Reference (6J31007-SRM	/l1)				Prepared 8	& Analyzed:	10/31/06			
BROMODICHLOROMETHANE	0.009080	0.0005	mg/L	0.00809		112	50-150			
CHLOROBENZENE	0.008010	0.0005	•	0.00809		98.9	50-150			
CHLOROFORM	0.008850	0.0005	**	0.00809		109	50-150			
1,2-DICHLOROETHANE	0.008780	0.0005		0.00809		108	50-150			
TRICHLOROETHYLENE	0.008080	0.0005	"	0.00809		99.8	50-150			
Surrogate: Dibromofluoromethane	0.01104		"	0.00809		136	50-150			
Surrogate: Fluorobenzene	0.009310		"	0.00809		115	50-150			
Surrogate: Chlorobenzene-d5	0.004080		"	ō.00809		50.4	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008410		**	0.00809		104	50-150			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 13 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level		%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J31007 - Volatile	s									
QC SAMPLE: Reference (6J31007-	SRM2)				Prepared of	& Analyzed	: 10/31/06			
BROMODICHLOROMETHANE	0.008460	0.0005	mg/L	0.00809		105	50-150			
CHLOROBENZENÉ	0.008060	0.0005	"	0.00809		99.6	50-150			
CHLOROFORM	0.005590	0.0005	n	0.00809		69.1	50-150			
1,2-DICHLOROETHANE	0.007970	0.0005	**	0.00809		98.5	50-150			
TRICHLOROETHYLENE	0.007850	0.0005	п	0.00809		97.0	50-150			
Surrogate: Dibromofluoromethane	0.01155		"	0.00809		143	50-150			
Surrogate: Fluorobenzene	0.01197		,,	0.00809		148	50-150			
Surrogate: Chlorobenzene-d5	0.006210		,,	0.00809		76.7	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009170		,,	0.00809		113	50-150			



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 14 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J26009 - *** Organ	nic Prep ***									
QC SAMPLE: Calibration Blank (6J2	(6009-CCB1)				Prepared:	10/25/06 A	\nalyzed:	10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	"							
N-DECANE	ND	0.980	••							
2,4-DINITROTOLUENE	ND	0.980	**							
FLUORANTHENE	ND	0.980	"							
NITROBENZENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	15.4		п	20.0		77.0	50-150			
QC SAMPLE: Calibration Blank (6J2	(6009-CCB2)				Prepared:	10/25/06 A	Analyzed:	10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	,,							
N-DECANE	ND	0.980	"							
2,4-DINITROTOLUENE	ND	0.980	ь							
FLUORANTHENE	ND	0.980	**							
NITROBENZENE .	ND	0.980	11							
N-OCTADECANE	ND	0.980	ii ii							
Surrogate: 2-Fluorobiphenyl	17.4		"	20.0	1	87.0	50-150			_
Surrogate: Nitrobenzene-D5	11.8		"	20.0		59.0	50-150			
Surrogate: p-terphenyl-D14	12.8		"	20.0		64.0	50-150			
QC SAMPLE: Reference (6J26009-S	RM1)				Prepared 8	& Analyzed	: 10/25/06			
BIS(2-ETHYLHEXYL)PHTHALATE	25.0	0.980	mg/L	25.0		100	80-120			_
CARBAZOLE	22.0	0.980	19	37.4		58.8	50-150			
N-DECANE	25.0	0.980	**	25.0		100	50-150			
2,4-DINITROTOLUENE	25.0	0.980	*11	25.0		100	80-120			
FLUORANTHENE	25.0	0.980		25.0		100	80-120			
NITROBENZENE	25.0	0.980		25.0		100	80-120			
N-OCTADECANE	28.3	0.980	**	24.8		114	50-150			
Surrogate: 2-Fluorobiphenyl	26.4		"	25.0		106	50-150			
Surrogate: Nitrobenzene-D5	17.9		"	25.0		71.6	50-150			
Surrogate: p-terphenyl-D14	14.8		"	25.0		59.2	50-150			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 15 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J26009 - *** Orga	nic Prep ***			_					
QC SAMPLE: Reference (6J26009-5	SRM2)				Prepared: 10/25/06	Analyzed:	10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	29.8	0.980	mg/L	25.0	119	80-120			
CARBAZOLE	28.8	0.980		37.4	77.0	50-150			
N-DECANE	15.2	0.980	"	25.0	60.8	50-150			
2,4-DINITROTOLUENE	26.3	0.980	11	25.0	105	80-120			
FLUORANTHENE	24.1	0.980	"	25.0	96.4	80-120			
NITROBENZENE	19.4	0.980	"	25.0	77.6	80-120			
N-OCTADECANE	15.2	0.980		24.8	61.3	50-150			
Surrogate: 2-Fluorobiphenyl	24.4		"	25.0	97.6	50-150			
Surrogate: Nitrobenzene-D5	14.1		"	25.0	56.4	50-150			
Surrogate: p-terphenyl-D14	24.8		"	25.0	99.2	50-150			
BATCH: Batch 6J26023 - *** Orga QC SAMPLE: Blank (6J26023-BLK1	•				Prepared: 10/24/06	Analyzed	10/26/06		
PENTACHLOROPHENOL	ND ND	0.0185	mg/L	<u> </u>	1 Tepared: 10/24/00	Analyzeu.	10/20/00		
Surrogate: Phenol-d6	0.0244		- "	0.102	23.9	50-150			
Surrogate: 2,4,6-Tribromophenol	0.0827		"	0.102	81.1	50-150			
QC SAMPLE: Calibration Blank (6J	26023-CCB1)				Prepared: 10/24/06	Analyzed:	10/25/06		
PENTACHLOROPHENOL	ND	4.90	mg/L						
Surrogate: Phenol-d6	29.4		"	40.0	73.5	50-150			
Surrogate: 2,4,6-Tribromophenol	16.1		"	40.0	40.2	50-150			
QC SAMPLE: Calibration Blank (6J	26023-CCB2)				Prepared: 10/24/06	Analyzed:	10/26/06		
PENTACHLOROPHENOL	ND	4.90	mg/L						
Surrogate: Phenol-d6	28.5		"	40.0	71.2	50-150			
Surrogate: 2,4,6-Tribromophenol	34.0		"	40.0	85.0	50-150			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 16 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J26023 - *** Org	anic Prep ***									
QC SAMPLE: Reference (6J26023	-SRM1)				Prepared:	10/24/06	Analyzed:	10/25/06		
PENTACHLOROPHENOL	25.0	4.90	mg/L	25.0		100	80-120			
Surrogate: Phenol-d6	21.2	· · · · · · · · · · · · · · · · · · ·	"	25.0		84.8	50-150			
Surrogate: 2,4,6-Tribromophenol	22.7		,,	25.0		90.8	50-150			
QC SAMPLE: Reference (6J26023	-SRM2)	_			Prepared:	10/24/06	Analyzed: 1	10/26/06		
PENTACHLOROPHENOL	22.0	4.90	mg/L	25.0		88.0	80-120	-		
Surrogate: Phenol-d6	19.2			25.0		76.8	50-150			
Surrogate: 2,4,6-Tribromophenol	23.8		,,	25.0		95.2	50-150			



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 17 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J30003 - *** Orga	nic Prep ***					· · · · · · · · · · · · · · · · · · ·			
QC SAMPLE: Calibration Blank (6J	30003-CCB1)			 Prepared:	10/25/06	Analyzed:	10/30/06		
ALDRIN	ND	0.653	mg/L						
ALPHA-BHC	ND	0.327	"						
BETA-BHC	ND	0.653	"						
GAMMA-BHC (LINDANE)	ND	0.327							
DELTA-BHC	ND	0.653	**						
4,4-DDD	ND	1.31	n						
4,4-DDE	ND	0.653	**						
CHLORDANE	ND	0.653	11						
4,4-DDT	ND	1.31	*1						
DIELDRIN	ND	0.653							
ENDOSULFAN I	ND	0.653	n						
ENDOSULFAN II	ND	1.31	н						
ENDOSULFAN SULFATE	ND	1.31	**						
ENDRIN	ND	0,653	,,						
ENDRIN ALDEHYDE	ND	1.63	**						
ENDRIN KETONE	ND	1.63	**						
HEPTACHLOR	ND	0.653							
HEPTACHLOR EPOXIDE	ND	0.653	"						
ALPHA-CHLORDANE	ND	0.653							
METHOXYCHLOR	ND	1.63	"						
GAMMA-CHLORDANE	ND	0.653	n						
	ND ND		"						
TOXAPHENE		13.1							
QC SAMPLE: Calibration Blank (6J				 Prepared:	10/25/06	Analyzed:	10/30/06		
ALDRIN	ND	0.653	. mg/L						
ALPHA-BHC	ND	0.327	,,						
BETA-BHC	ND	0.653	"						
GAMMA-BHC (LINDANE)	ND	0.327	"						
DELTA-BHC	ND	0.653	п						
4,4-DDD	ND	1.31	"						
4,4-DDE	ND	0.653	"						
CHLORDANE	ND	0.653	"						
4,4-DDT	ND	1.31	"						
DIELDRIN	ND	0.653							
ENDOSULFAN I	ND	0.653	11						
ENDOSULFAN II	ND	1.31	"						
ENDOSULFAN SULFATE	ND	1.31	**						
ENDRIN	ND	0.653	**						
ENDRIN ALDEHYDE	ND	1.63	**						
ENDRIN KETONE	ND	1.63							
HEPTACHLOR	ND	0.653	**						
HEPTACHLOR EPOXIDE	ND	0.653	n						
ALPHA-CHLORDANE	ND	0.653	**						
	ND ND	0.653 1.63	"						
ALPHA-CHLORDANE METHOXYCHLOR GAMMA-CHLORDANE			n n						

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:36

REPORT NUMBER:6102506

PAGE: 18 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J30003 - *** Organi	c Prep ***								-
QC SAMPLE: Reference (6J30003-SRI	VI1)				Prepared: 10/25/06	Analyzed:	10/30/06		
ALDRIN	4.86	0.653	mg/L	5.00	97.2	50-150			
ALPHA-BHC	4.73	0.327	"	5.00	94.6	50-150			
BETA-BHC	4.06	0.653	11	5.00	81.2	50-150			
GAMMA-BHC (LINDANE)	4.51	0.327		5.00	90.2	50-150			
DELTA-BHC	4.82	0.653	п	5.00	96.4	50-150			
4,4-DDD	5.15	1.31	"	5.00	103	50-150			
4,4-DDE	5.18	0.653	H	5.00	104	50-150			
4,4-DDT	5.39	1.31	rr ·	5.00	108	50-150			
DIELDRIN	5.01	0.653	•	5.00	100	50-150			
ENDOSULFAN I	5.17	0.653	**	5.00	103	50-150			
ENDOSULFAN II	4.98	1.31	"	5.00	99.6	50-150			
ENDOSULFAN SULFATE	5.04	1.31	0	5.00	101	50-150			
ENDRIN	4.70	0.653	"	5.00	94.0	50-150			
ENDRIN ALDEHYDE	5.06	1.63	"	5.00	101	50-150			
ENDRIN KETONE	5.05	1.63		5.00	101	50-150			
HEPTACHLOR	4.99	0.653	n	5.00	99.8	50-150			
HEPTACHLOR EPOXIDE	4.92	0.653		5.00	98.4	50-150			
ALPHA-CHLORDANE	4.77	0.653	0	5.00	95.4	50-150			
METHOXYCHLOR	4.77	1.63	"	5.00	95.4	50-150			
GAMMA-CHLORDANE	5.25	0.653	"	5.00	105	50-150			
QC SAMPLE: Reference (6J30003-SRI	VI2)				Prepared: 10/25/06	Analyzed:	10/30/06		
ALDRIN	4.67	0.653	mg/L	5.00	93.4	50-150			
ALPHA-BHC	4.62	0.327		5.00	92.4	50-150			
BETA-BHC	3.38	0.653	"	5.00	67.6	50-150			
GAMMA-BHC (LINDANE)	4.72	0.327	n	5.00	94.4	50-150			
DELTA-BHC	4.64	0.653	11	5.00	92.8	50-150			
. 4,4-DDD	5.49	1,31	n	5.00	110	50-150			
4,4-DDE	5.27	0.653		5.00	105	50-150			
4,4-DDT	5.48	1.31		5.00	110	50-150			
DIELDRIN	4.83	0.653		5.00	96.6	50-150			
ENDOSULFAN I	5.10	0.653	**	5.00	102	50-150			
ENDOSULFAN II	5.05	1.31		5.00	101	50-150			
ENDOSULFAN SULFATE	4.95	1.31	n	5.00	99.0	50-150			
ENDRIN	5.12	0.653	**	5.00	102	50-150			
ENDRIN ALDEHYDE	5.18	1.63	"	5.00	104	50-150			
ENDRIN KETONE	5.10	1.63	11	5.00	102	50-150			
HEPTACHLOR	4.94	0.653		5.00	98.8	50-150			
HEPTACHLOR EPOXIDE	4.80	0.653		5.00	96.0	50-150			
ALPHA-CHLORDANE	4.81	0.653	,,	5.00	96.2	50-150			
METHOXYCHLOR	4.85	1.63		5.00	97.0	50-150			
GAMMA-CHLORDANE	4.96	0.653	п	5.00	99.2	50-150			
J	4.55	3.033		5.55	33.2	,00			



SRM too low. Data considered estimates.

SRMs slightly lower. Data considered as estimates.

A-01c

A-01d

SRM-1

CERTIFICATE OF ANALYSIS

REPORT D	ATE: 11/03/06 08:36	REPORT NUMBER:6102506	PAGE: 19 OF 19
Data Qualifi	ers:		
Qualifier	Notes		
A-01	Both SRMs were slightly low. Data	should be considered estimates.	
A-01a	Problem with NPO&G SRM. Data c	onsidered estimates.	
A-01b	Replicate results too low for reasona	ble RPD.	

The recovery of this SRM was high. The batch was accepted on the basis of other reference materials in this batch.

This report may not be reproduced except in full.



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Cascade General Name Lian Jewell Source Name Address Cascade General Source Address 5555 N. Channel Ave. 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 Facsimile Number 503/247-6050 Email Address Batch Information CWTBljewell@vigorindustrial.net Batch Number: Proposed Discharge 525,000 gal Volume:* Actual Discharge Request Date/Time: 11/10/2006 9:00am Volume: Sampling Location: Date Proposed: 11/14/2006 Tank-7, BWTP Sampled? YES NO Duration of Discharge: Start: Stop: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below 150 gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: YES or NO Date of Approval: /2006 Approved By: Wesley McDaniel Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best

Signature: _____ Date:

of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

	CI	II OF	PURI	LAN	D	
INDUS	TRIAL	WAST	EWA"	TER !	DISCH	ARGE
	SELF-N	10NIT	ORIN	G RE	PORT	

INDUSTRY NAME: Cascade General

437.003B PERMIT NUMBER:

REPORT DUE DATE:

Every Batch

October 2006 SAMPLING PERIOD:

For Industrial Sou	irce Control Division Use Only
	Org 2159
Date Postmarked/Received	Date Entered

Entered By:

Comments:

SAMPLE DATE	POINT OF COMPLIANCE		SAMPLE TY	PE			
10/24/06	CV	VT2B	GRAB				
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRATE			LII DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	6.6 mg/L	2.0		N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	3.6 mg/L	2.0		110 mg/L	N/A	
Cyanide	SM 4500	0.004 mg/L	0.000	3	1.2 mg/L	N/A	
Sulfide	EPA 376.1	2.2 mg/L	1.0	Par	4.0 mg/L	N/A	
рН	EPA 150.1	9.28 SU			5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND	0.000	5	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND	0.006	4	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND	0.010	0	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	0.0065 mg/l	0.006	4	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND	0.006	4	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND	0.004	0	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND	0.000	5	0.2 mg/L	N/A	
Chloroform	EPA 624	ND	0.000	5	0.2 mg/L	N/A	
n-Decane	EPA 625	ND	0.006	4	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND	0.006	4	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND	0.006	4	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND	0.006	4	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND	0.032	0	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	ND	0.000	5	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
10/24/06	CV	/T2B	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTEI CONCENTRAT		DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.020	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	ND	0.050	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.038 mg/L	0.002	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	ND	0.003	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	ND	0.005	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.010	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	ND	0.005	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	ND	0.005	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND	0.00005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	0.10 mg/L	0.010	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	0.07 mg/L	0.02	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	ND	0.1	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND	0.010	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.040	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	0.03 mg/L	0.010	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	



CLIENT: Cascade General

ATTN: Bob Collinson P.O. Box 4367

Portland OR, 97208

PROJECT NAME: Wastewater Disch Permit Test -A Subcat

PROJECT NUMBER: 85806

PHONE: (503) 247-1634

FAX: (503) 247-1680

SUBMITTED: 10/25/06 07:55

REPORT DATE: 11/03/06 08:29

REPORT NUMBER: 6102501

PAGE: 1 OF 19

CISAMPLE	CLIENTS ID#		DATE		MATRIX			
6102501-01	T-7, 10-24-06		10/24	/2006 1515	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6102501-01	SAMPLE ID: T-7, 1	0-24-06						
General Bench	Analysis							
CYANIDE, TOTAL	SM 4500-CN-B,C	CYANIDE, TOTAL	0.0044	mg/L	0.0030	DAU	10/31/2006 14:16	
O & G, NP (SGT-HEM)	EPA 1664	NONPOLAR OIL & GREASE	3.6	mg/L	2.0	JRW	10/31/2006 12:57	A-01a
O & G, TOTAL (HEM)		TOTAL OIL AND GREASE	6.6	mg/L	2.0	JRW	10/31/2006 12:57	A-01c
PH	EPA 150,1/9040	рН	9.28	SU		DAU	10/25/2006 14:03	
		TEMPERATURE (C)	21.7	SU				
SULFIDE	EPA 376.1	SULFIDE	2.2	mg/L	1.0	DAU	10/30/2006 09:03	
Total Mercury by	y Cold Vapor Atomi	c Fluorescence						
MERCURY CV AF	EPA 245.7/1631	MERCURY	ND	mg/L	0.000050	KEL	11/01/2006 15:12	
Total Metals by	Inductively Coupled	l Plasma						
ANTIMONY - ICP	EPA 200,7/6010B	ANTIMONY	ND	mg/L	0.020	KEL	10/26/2006 13:47	
ARSENIC - ICP		ARSENIC	ND	mg/L	0.050	KEL	10/26/2006 13:29	
BARIUM - ICP		BARIUM	0.038	mg/L	0.002	KEL	10/26/2006 14:11	
CADMIUM - ICP		CADMIUM	ND	mg/L	0.003	KEL	10/26/2006 13:29	
CHROMIUM - ICP		СНКОМІИМ	ND	mg/L	0.005	KEL	10/26/2006 13:29	
COBALT - ICP		COBALT	ND	mg/L	0.010	KEL	10/26/2006 13:47	
COPPER - ICP		COPPER	ND	mg/L	0.005	KEL	10/26/2006 13:59	
LEAD - ICP		LEAD	ND	mg/L	0.005	KEL	10/26/2006 13:29	
MOLYBDENUM - ICP		MOLYBDENUM	0.10	mg/L	0.010	KEL	10/26/2006 13:59	
NICKEL - ICP		NICKEL	0.070	mg/L	0.020	KEL	10/26/2006 13:59	
SELENIUM - ICP		SELENIUM	ND	mg/L	0.10	KEL	10/26/2006 13:29	
SILVER - ICP		SILVER	ND	mg/L	0.010	KEL	10/26/2006 14:11	
TIN - ICP		TIN	ND	mg/L	0.040	KEL	10/27/2006 15:50	
ZINC - ICP		ZINC	0.033	mg/L	0.010	KEL	10/26/2006 13:59	•
· ·		graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	ACRYLONITRILE	ND	mg/L	0.0100	JRW	10/31/2006 10:23	

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Ph:(503) 286-9464 Fax:(503) 286-5355 E-mail:cilabqa@ColumbiaInspection.com



REPORT DATE	: 11/03/06 08:2	PEPORT I	NUMBER:6102	501			PAGE: 2	OF 19
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6102501-01	SAMPLE ID: T-7, 1	0-24-06						
Volatile Organics	by Gas Chromato	graphy/Mass Spectroscopy						
VOC 624 Extended	EPA 624	BROMODICHLOROMETHANE	ND	mg/L	0.0005	JRW	10/31/2006 10:23	
		CHLOROBENZENE	ND	mg/L	0.0005			
		CHLOROFORM	ND	mg/L	0.0005			
		1,2-DICHLOROETHANE	ND	mg/L	0.0005			
		TRICHLOROETHYLENE	ND	mg/L	0.0005			
		Surrogate: Dibromofluoromethane	140 %	%RECOVERY	50-150			
		Surrogate: Fluorobenzene	98.6 %	%RECOVERY	50-150			
		Surrogate: Chlorobenzene-d5	52.9 %	%RECOVERY	50-150			
		Surrogate: 1,4-Dichlorobenzene-d4	108 %	%RECOVERY	50-150			
Semi-Volatile Or	ganics by Gas Chr	omatography/Mass Spectroscopy						
ACID SEMIVOLS	EPA 625	PENTACHLOROPHENOL	ND	mg/L	0.0320	DM	10/26/2006 03:19	
625		Surrogate: Phenol-d6	29.3 %	%RECOVERY	50-150			
		Surrogate: 2,4,6-Tribromophenol	119 %	%RECOVERY				
B/N SEMIVOL 625		BIS(2-ETHYLHEXYL)PHTHALATE	0.00653	mg/L	0.00640	ZZZ	10/26/2006 03:19	
		CARBAZOLE	ND	mg/L	0.00640			
		N-DECANE	ND	mg/L	0.00640			
		2.4-DINITROTOLUENE	ND	mg/L	0.00640			
		FLUORANTHENE	ND	mg/L	0.00640			
		NITROBENZENE	ND	mg/L	0.00640			
		N-OCTADECANE	ND	mg/L	0.00640			
		Surrogate: 2-Fluorobiphenyl	70.6 %	%RECOVERY				
		Surrogate: Nitrobenzene-D5	67.1 %	%RECOVERY				
		Surrogate: p-terphenyl-D14	97.6 %	%RECOVERY				
Semi-Volatile Or	ganics by Gas Chr	omatography/ECD						
PCBs 625	EPA 625 (SCAN)	AROCHLOR 1016	ND	mg/L	0.0032	DM	10/30/2006 13:05	
. 020 020		AROCHLOR 1221	ND	mg/L	0.0032		10.00.200	
		AROCHLOR 1232	ND	mg/L	0.0032			
		AROCHLOR 1242	ND	mg/L	0.0032			
		AROCHLOR 1248	ND	mg/L	0.0032			
		AROCHLOR 1254	ND	mg/L	0.0032			
		AROCHLOR 1260	ND	mg/L	0.0032			
PESTICIDES 625	EPA 625	ALDRIN	ND	mg/L	0.00400	DM	10/30/2006 12:18	
		ALPHA-BHC	ND	mg/L	0.00200			
		BETA-BHC	ND	mg/L	0.00400			
		GAMMA-BHC (LINDANE)	ND	mg/L	0.00200			
		DELTA-BHC	ND	mg/L	0.00400			
		4,4-DDD	ND	mg/L	0.00800			
		4,4-DDE	ND	mg/L	0.00400			
		CHLORDANE	ND	mg/L	0.00400			
		4,4-DDT	ND	mg/L	0.00800			
		DIELDRIN	ND	mg/L	0.00400			
		ENDOSULFAN I	ND	mg/L	0.00400			
		ENDOSULFAN II	ND	mg/L	0.00800			
		ENDOSULFAN SULFATE	ND	mg/L	0.00800			
		ENDRIN	ND	mg/L	0.00400			
		ENDRIN ALDEHYDE	ND	mg/L	0.0100			
		CHONIN ACDELLI DE	110	mg/ L	5.0100			

This report may not be reproduced except in full.



REPORT DATE	: 11/03/06 08:29	REP			PAGE: 3	OF 19		
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME	NOTES
6102501-01	SAMPLE ID: T-7, 10-	24-06						
Semi-Volatile Or	rganics by Gas Chron	natography/ECD						
PESTICIDES 625	EPA 625	ENDRIN KETONE	ND	mg/L	0.0100	DM	10/30/2006 12:18	
		HEPTACHLOR	ND	mg/L	0.00400			
		HEPTACHLOR EPOXIDE	ND	mg/L	0.00400			
		ALPHA-CHLORDANE	ND	mg/L	0.00400			
		METHOXYCHLOR	ND	mg/L	0.0100			
		GAMMA-CHLORDANE	ND	mg/L	0.00400			
		TOXAPHENE	ND	mg/L	0.0800			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 4 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD .	RPD Limit	Notes
BATCH: Batch 6J25008 - General Prepa	aration									
QC SAMPLE: Duplicate (6J25008-DUP1)		;	Source: 6102	2507-01	Prepared 8	& Analyzed	l: 10/25/06			
рН	7.71		SU		7.75			0.517	10	
TEMPERATURE (C)	17.7		"		17.7			0.00	200	
QC SAMPLE: Reference (6J25008-SRM1)					Prepared & Analyzed: 10/25/06					
рН	4.98		SU	5.00		99.6	97.5-102	-		
QC SAMPLE: Reference (6J25008-SRM2)					Prepared 8	& Analyzed	l: 10/25/06			
рН	7.90		SU	8.00	•	98.8	97.5-102			
BATCH: Batch 6J31010 - Water Extract	ion									
QC SAMPLE: Blank (6J31010-BLK1)					Prepared 8	& Analyzed	I: 10/31/06			
NONPOLAR OIL & GREASE	ND	2.0	mg/L							
TOTAL OIL AND GREASE	ND	2.0	н							
QC SAMPLE: LCS (6J31010-BS1)					Prepared &	& Analyzed	i: 10/31/06			
NONPOLAR OIL & GREASE	3.5	2.0	mg/L	8.07		43.4	66-114			A-01b
TOTAL OIL AND GREASE	10.9	2.0		16.1		67.7	79-114			A-01
QC SAMPLE: LCS Dup (6J31010-BSD1)	AMPLE: LCS Dup (6J31010-BSD1) Prepared & Analyzed: 10/3					I: 10/31/06				
NONPOLAR OIL & GREASE	4.3	2.0	mg/L	8.07		53.3	66-114	20.5	24	A-01b
TOTAL OIL AND GREASE	12.2	2.0	II .	16.1		75.8	79-114	11.3	18	A-01
BATCH: Batch 6J31013 - General Prepa	aration		***							
QC SAMPLE: Blank (6J31013-BLK1)			Prepared & Analyzed: 10/31/06							
CYANIDE, TOTAL	ND	0.0030	mg/L		<u></u>					



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 5 OF 19

General Bench Analysis - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
BATCH: Batch 6J31013 - General Prepa	aration										
QC SAMPLE: Duplicate (6J31013-DUP1)		Source: 6102506-01				& Analyzed	I: 10/31/06				
CYANIDE, TOTAL	ND	0.0030	mg/L		МD				20		
QC SAMPLE: Reference (6J31013-SRM1)			Prepared & Analyzed: 10/31/06								
CYANIDE, TOTAL	0.0793	0.0030	mg/L	0.0800		99.1	90-110				



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 6 OF 19

Total Mercury by Cold Vapor Atomic Fluorescence - Quality Control

Batch/Sample/Analyte		Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Bate	ch 6K01004 - ***Metals Pre	ep***									
QC SAMPLE:	Blank (6K01004-BLK1)				Prepared	& Analyzed	: 11/01/06				
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	4-CCB1)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	1-CCB2)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	1-CCB3)				Prepared	& Analyzed	: 11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	1-CCB4)	- part			Prepared -	& Analyzed	: 11/01/06	<u></u>		
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Calibration Blank (6K01004	1-CCB5)	· · · · · · · · · · · · · · · · · · ·			Prepared	& Analyzed	11/01/06			
MERCURY		ND	0.000050	mg/L							
QC SAMPLE:	Reference (6K01004-SRM1)				Prepared	& Analyzed	: 11/01/06			
MERCURY		0.00020	0.000050	mg/L	0.00020		100	90-110			
QC SAMPLE:	Reference (6K01004-SRM2)		.,		Prepared	& Analyzed	11/01/06			
MERCURY		0.00021	0.000050	mg/L	0.00020		105	90-110			
QC SAMPLE:	Reference (6K01004-SRM3)				Prepared	& Analyzed	: 11/01/06			
MERCURY		0.00024	0.000050	mg/L	0.00020		120	90-110			SRM-1
QC SAMPLE:	Reference (6K01004-SRM4)				Prepared	& Analyzed	: 11/01/06			
MERCURY		0.00024	0.000050	mg/L	0.00020		120	90-110			SRM-1

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 7 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J26011 - ***Metals Pre	p***									
QC SAMPLE:	Blank (6J26011-BLK1)					Prepared	& Analyzed	: 10/26/06			
ARSENIC		ND	0.045	mg/L	-						
CADMIUM		ND	0.003								
CHROMIUM		ND	0.004	**							
LEAD		ND	0.004	,,							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (6J26011	-CCB1)				Prepared	& Analyzed	: 10/26/06			
ARSENIC		ND	0.045	mg/L							
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004	**							
LEAD		ND	0.004	**							
SELENIUM		ND	0.090	"							
QC SAMPLE:	Calibration Blank (6J26011	-CCB2)				Prepared	& Analyzed	: 10/26/06			
ARSENIC	- -	ND	0.045	mg/L							
CADMIUM		ND	0.003	**							
CHROMIUM		ND	0.004								
LEAD		ND	0.004	**							
SELENIUM		ND	0.090								
QC SAMPLE:	Reference (6J26011-SRM1)					Prepared	& Analyzed	: 10/26/06			
ARSENIC		0.971	0.045	mg/L	1.00		97.1	85-115			
CADMIUM		0.977	0.003	"	1.00		97.7	85-115			
CHROMIUM		1.01	0.004	**	1.00		101	85-115			
LEAD		1.01	0.004	"	1.00		101	85-115			
SELENIUM		0.998	0.090	"	1.00		99.8	85-115			
QC SAMPLE:	Reference (6J26011-SRM2)					Prepared	& Analyzed	: 10/26/06			
ARSENIC	-	0.980	0.045	mg/L	1.00		98.0	85-115			
CADMIUM		0.904	0.003	"	1.00		90.4	85-115			
CHROMIUM		0.976	0.004	n	1.00		97.6	85-115			
LEAD		0.975	0.004	н	1.00		97.5	85-115			
SELENIUM		0.914	0.090	,,	1.00		91.4	85-115			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 8 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J26014 - ***Metals Pre	p***									
QC SAMPLE:	Blank (6J26014-BLK1)					Prepared	& Analyzed:	10/26/06			
ANTIMONY		ND	0.018	mg/L							
COBALT		ND	0.0090	н							
QC SAMPLE:	Calibration Blank (6J26014	-CCB1)				Prepared	& Analyzed:	10/26/06			
ANTIMONY		ND	0.018	mg/L							
COBALT		ND	0.0090	11							
QC SAMPLE:	Calibration Blank (6J26014	-CCB2)				Prepared	& Analyzed:	10/26/06			
ANTIMONY		ND	0.018	mg/L							
COBALT		ND	0.0090	и							
QC SAMPLE:	Reference (6J26014-SRM1))				Prepared	& Analyzed:	10/26/06			
ANTIMONY		1.00	0.018	mg/L	1.00		100	85-115			
COBALT		0.999	0.0090	**	1.00		99.9	85-115			
QC SAMPLE:	Reference (6J26014-SRM2))				Prepared	& Analyzed:	10/26/06			
ANTIMONY		0.990	0.018	mg/L	1.00		99.0	85-115			
COBALT	•	0.963	0.0090	"	1.00		96.3	85-115			
BATCH: Batc	h 6J26017 - ***Metals Pre	p***									
QC SAMPLE:	Blank (6J26017-BLK1)					Prepared -	& Analyzed:	10/26/06			
COPPER		ND	0.004	mg/L		·					
MOLYBDENUM		ND	0.009	- "							
NICKEL		ND	0.018	**							
ZINC		ND	0.009								



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 9 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J26017 - ***Metals Pr	ер***									
QC SAMPLE:	Calibration Blank (6J2601	7-CCB1)				Prepared	& Analyzed	: 10/26/06			
COPPER		ND	0.004	mg/L							
MOLYBDENUM		ND	0.009	"							
NICKEL		ND	0.018	"							
ZINC		ND	0.009								
QC SAMPLE:	Calibration Blank (6J2601	7-CCB2)				Prepared -	& Analyzed	: 10/26/06			
COPPER		ND	0.004	mg/L							
MOLYBDENUM		ND	0.009	"							
NICKEL		ND	0.018	"							
ZINC		0.010	0.009	п							
QC SAMPLE:	Reference (6J26017-SRM	1)				Prepared	& Analyzed	: 10/26/06			
COPPER		1.04	0.004	mg/L	1.00		104	85-115			
MOLYBDENUM		1.07	0.009	٠,	1.00		107	85-115			
NICKEL	-	1.04	0.018	"	1.00		104	85-115			
ZINC		0.993	0.009		1.00		99.3	85-115			
QC SAMPLE:	Reference (6J26017-SRM)	2)				Prepared -	& Analyzed	: 10/26/06			
COPPER		1.02	0.004	mg/L	1.00		102	85-115			
MOLYBDENUM		1.02	0.009	"	1.00		102	85-115			
NICKEL		1.00	0.018	n	1.00		100	85-115			
ZINC		1.09	0.009	"	1.00		109	85-115			
BATCH: Batc	h 6J26018 - ***Metals Pr	ep***									
QC SAMPLE:	Blank (6J26018-BLK1)					Prepared	& Analyzed	: 10/26/06			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009								



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 10 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample	/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batc	h 6J26018 - ***Metals Pi	rep***									
QC SAMPLE:	Calibration Blank (6J2601	18-CCB1)				Prepared 8	& Analyzed:	10/26/06			
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							
QC SAMPLE:	Calibration Blank (6J2601	18-CCB2)				Prepared 8	& Analyzed:	10/26/06	var vitrir va A		
BARIUM		ND	0.002	mg/L							
SILVER		ND	0.009	"							
QC SAMPLE:	Reference (6J26018-SRM	1)				Prepared 8	& Analyzed:	10/26/06			
BARIUM		1.12	0.002	mg/L	1.00		112	85-115			
SILVER		0.474	0.009	"	0.500		94.8	85-115			
QC SAMPLE:	Reference (6J26018-SRM	2)				Prepared 8	& Analyzed:	10/26/06			
BARIUM		1.11	0.002	mg/L	1.00		111	85-115			
SILVER		0.478	0.009	"	0.500		95.6	85-115			
BATCH: Batc	h 6J27014 - ***Metals Pr	rep***									
QC SAMPLE:	Blank (6J27014-BLK1)					Prepared 8	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6J2701	14-CCB1)				Prepared 8	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Calibration Blank (6J2701	14-CCB2)				Prepared &	& Analyzed:	10/27/06			
TIN		ND	0.036	mg/L							
QC SAMPLE:	Reference (6J27014-SRM	1)				Prepared 8	& Analyzed:	10/27/06			
TIN		1.06	0.036	mg/L	1.00		106	90-110			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 11 OF 19

Total Metals by Inductively Coupled Plasma - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J27014 - ***Metals F	Prep***	_								
QC SAMPLE: Reference (6J27014-SRM	/I2)	_			Prepared	& Analyzed	1: 10/27/06	_		
TIN	1.10	0.036	mg/L	1.00		110	90-110			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 12 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J31007 - Volatile	es									
QC SAMPLE: Calibration Blank (6	J31007-CCB1)				Prepared (& Analyzed:	10/31/06			
ACRYLONITRILE	ND	0.0100	mg/L							
BROMODICHLOROMETHANE	ND	0.0005	"							
CHLOROBENZENE	ND	0.0005	н							
CHLOROFORM	ND	0.0005	0							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.01164		ıı	0.00809		144	50-150			
Surrogate: Fluorobenzene	0.01132		"	0.00809		140	50-150			
Surrogate: Chlorobenzene-d5	0.004460		"	0.00809		55.1	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.006900		u	ō.00809		85.2	50-150			
QC SAMPLE: Calibration Blank (6	J31007-CCB2)			-	Prepared	& Analyzed:	10/31/06			
ACRYLONITRILE	ND	0.0100	mg/L							
BROMODICHLOROMETHANE	ND	0.0005	"							
CHLOROBENZENE	ND	0.0005								
CHLOROFORM	ND	0.0005	D.							
1,2-DICHLOROETHANE	ND	0.0005	"							
TRICHLOROETHYLENE	ND	0.0005	"							
Surrogate: Dibromofluoromethane	0.01156		"	0.00809		143	50-150			
Surrogate: Fluorobenzene	0.009030		11	ō.00809		112	50-150			
Surrogate: Chlorobenzene-d5	0.004710		"	0.00809		58.2	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008340		"	ō.00809		103	50-150			
QC SAMPLE: Reference (6J31007	-SRM1)				Prepared	& Analyzed:	10/31/06			
BROMODICHLOROMETHANE	0.009080	0.0005	mg/L	0.00809		112	50-150			
CHLOROBENZENE	0.008010	0.0005	п	0.00809		98.9	50-150			
CHLOROFORM	0.008850	0.0005		0.00809		109	50-150			
1,2-DICHLOROETHANE	0.008780	0.0005	"	0.00809		108	50-150			
TRICHLOROETHYLENE	0.008080	0.0005	n	0.00809		99.8	50-150			
Surrogate: Dibromofluoromethane	0.01104		"	0.00809		136	50-150			
Surrogate: Fluorobenzene	0.009310		"	0.00809		115	50-150			
Surrogate: Chlorobenzene-d5	0.004080		11	ō.00809		50.4	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.008410		"	ō.00809		104	50-150			

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 13 OF 19

Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J31007 - Volatile	s				·					
QC SAMPLE: Reference (6J31007-	SRM2)				Prepared	& Analyzed	: 10/31/06	_,		
BROMODICHLOROMETHANE	0.008460	0.0005	mg/L	0.00809		105	50-150			
CHLOROBENZENE	0.008060	0.0005	"	0.00809		99.6	50-150			
CHLOROFORM	0.005590	0.0005	"	0.00809		69.1	50-150			
1,2-DICHLOROETHANE	0.007970	0.0005	***	0.00809		98.5	50-150			
TRICHLOROETHYLENE	0.007850	0.0005	11	0.00809		97.0	50-150			
Surrogate: Dibromofluoromethane	0.01155		"	0.00809		143	50-150			
Surrogate: Fluorobenzene	0.01197		"	õ.00809		148	50-150			
Surrogate: Chlorobenzene-d5	0.006210		"	ō.00809		76.7	50-150			
Surrogate: 1,4-Dichlorobenzene-d4	0.009170		"	ō.00809		113	50-150			



REPORT DATE: 11/03/06 08:29 REPORT NUMBER:6102501 PAGE: 14 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J26009 - *** Organic	Prep ***									
QC SAMPLE: Calibration Blank (6J260)	09-CCB1)				Prepared:	10/25/06	Analyzed:	10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	**							
N-DECANE	ND	0.980	**							
2,4-DINITROTOLUENE	ND	0.980	"							
FLUORANTHENE	ND	0.980								
NITROBENZENE	ND	0.980	н							
N-OCTADECANE	ND	0.980	II.							
Surrogate: 2-Fluorobiphenyl	15.4		"	20.0		77.0	50-150			
QC SAMPLE: Calibration Blank (6J260)	09-CCB2)				Prepared:	10/25/06	Analyzed:	10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.980	mg/L							
CARBAZOLE	ND	0.980	- "							
N-DECANE	ND	0.980	19							
2,4-DINITROTOLUENE	ND	0.980	n							
FLUORANTHENE	ND	0.980	,,							
NITROBENZENE	ND	0.980	**							
N-OCTADECANE	ND	0.980	"							
Surrogate: 2-Fluorobiphenyl	17.4		"	20.0		87.0	50-150			
Surrogate: Nitrobenzene-D5	11.8			20.0		59.0	50-150			
Surrogate: p-terphenyl-D14	12.8		u	20.0		64.0	50-150			
QC SAMPLE: Reference (6J26009-SRM	1)				Prepared	& Analyzed	d: 10/25/06)		
BIS(2-ETHYLHEXYL)PHTHALATE	25.0	0.980	mg/L	25.0		100	80-120			
CARBAZOLE	22.0	0.980	"	37.4		58.8	50-150			
N-DECANE	25.0	0.980	n	25.0		100	50-150			
2,4-DINITROTOLUENE	25.0	0.980		25.0		100	80-120			
FLUORANTHENE	25.0	0.980	11	25.0		100	80-120			
NITROBENZENE	25.0	0.980		25.0		100	80-120			
N-OCTADECANE	28.3	0.980	n	24.8		114	50-150			
Surrogate: 2-Fluorobiphenyl	26.4		,,	25.0		106	50-150	-	*	
Surrogate: Nitrobenzene-D5	17.9		"	25.0		71.6	50-150			
Surrogate: p-terphenyl-D14	14.8	•	"	25.0		59.2	50-150			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 15 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits		RPD Limit	Notes
BATCH: Batch 6J26009 - *** Organic F	Prep ***								
QC SAMPLE: Reference (6J26009-SRM2)				Prepared: 10/25/06	Analyzed	: 10/26/06		
BIS(2-ETHYLHEXYL)PHTHALATE	29.8	0.980	mg/L	25.0	119	80-120			
CARBAZOLE	28.8	0.980	n	37.4	77.0	50-150			
N-DECANE	15.2	0.980		25.0	60.8	50-150			
2,4-DINITROTOLUENE	26.3	0.980	**	25.0	105				
FLUORANTHENE	24.1	0.980	11	25.0	96.4	80-120			
NITROBENZENE	19.4	0.980	n	25.0	77.6				
N-OCTADECANE	15.2	0.980	D	24.8	61.3	50-150			
Surrogate: 2-Fluorobiphenyl	24.4		"	25.0	97.6	50-150			
Surrogate: Nitrobenzene-D5	14.1		"	25.0	56.4	50-150			
Surrogate: p-terphenyl-D14	24.8		"	25.0	99.2	50-150			
BATCH: Batch 6J26023 - *** Organic F QC SAMPLE: Blank (6J26023-BLK1)	rep ***				Prepared: 10/24/06	Analyzed:	: 10/26/06		·
PENTACHLOROPHENOL	ND	0.0185	mg/L						
Surrogate: Phenol-d6	0.0244		"	0.102	23.9	50-150			
Surrogate: 2,4,6-Tribromophenol	0.0827		n	0.102	81.1	50-150			
QC SAMPLE: Calibration Blank (6J26023	B-CCB1)				Prepared: 10/24/06	Analyzed:	10/25/06		
PENTACHLOROPHENOL	ND	4.90	mg/L						
Surrogate: Phenol-d6	29.4		"	40.0	73.5	50-150			
Surrogate: 2,4,6-Tribromophenol	16.1		"	40.0	40.2	50-150			
QC SAMPLE: Calibration Blank (6J26023	3-CCB2)				Prepared: 10/24/06	Analyzed:	10/26/06		
PENTACHLOROPHENOL	ND	4.90	mg/L						
Surrogate: Phenol-d6	28.5		"	40.0	71.2	50-150			
Surrogate: 2,4,6-Tribromophenol	34.0		"	40.0	85.0	50-150			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 16 OF 19

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J26023 - *** Organ	nic Prep ***									
QC SAMPLE: Reference (6J26023-S	RM1)				Prepared:	10/24/06	Analyzed: 1	10/25/06		
PENTACHLOROPHENOL	25.0	4.90	mg/L	25.0		100	80-120			
Surrogate: Phenol-d6	21.2		"	25.0		84.8	50-150			
Surrogate: 2,4,6-Tribromophenol	22.7		"	25.0		90.8	50-150			
QC SAMPLE: Reference (6J26023-S	RM2)				Prepared:	10/24/06	Analyzed: 1	10/26/06		
PENTACHLOROPHENOL	22.0	4.90	mg/L	25.0		88.0	80-120			
Surrogate: Phenol-d6	19.2		п	25.0		76.8	50-150			
Surrogate: 2,4,6-Tribromophenol	23.8		"	25.0		95.2	50-150			



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 17 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J30003 - *** Organic	Prep ***								
QC SAMPLE: Calibration Blank (6J3000	3-CCB1)			Prepared:	10/25/06	Analyzed:	10/30/06		
ALDRIN	ND	0.653	mg/L						
ALPHA-BHC	ND	0.327							
BETA-BHC	ND	0.653							
GAMMA-BHC (LINDANE)	ND	0.327	n						
DELTA-BHC	ND	0.653	n						
4,4-DDD	ND	1.31							•
4,4-DDE	ND	0.653							
CHLORDANE	ND	0.653	**						
4,4-DDT	ND	1.31	"						
DIELDRIN	ND	0.653	**						
ENDOSULFAN I	ND	0.653							
ENDOSULFAN II	ND	1.31	10						
ENDOSULFAN SULFATE	ND	1.31	*						
ENDRIN	ND	0.653	· ·						
ENDRIN ALDEHYDE	ND	1.63							
ENDRIN KETONE	ND	1.63	41						
HEPTACHLOR	ND	0.653	11						
HEPTACHLOR EPOXIDE	ND	0.653	"						
ALPHA-CHLORDANE	ND	0.653	11						
METHOXYCHLOR	ND	1.63							
GAMMA-CHLORDANE	ND	0.653	**						
TOXAPHENE	ND	13.1	n n						
QC SAMPLE: Calibration Blank (6J3000	3-CCB2)			Prepared:	10/25/06	Analyzed:	10/30/06		
ALDRIN	ND	0.653	mg/L						
ALPHA-BHC	ND	0.327	9						
BETA-BHC	ND	0.653	•						
GAMMA-BHC (LINDANE)	ND	0.327	,,						
DELTA-BHC	ND	0.653							
4,4-DDD	ND	1.31	**						
4,4-DDE	ND	0.653							
CHLORDANE	ND	0.653							
4,4-DDT	ND	1.31							
DIELDRIN	ND	0.653							
ENDOSULFAN I	ND	0.653							
ENDOSULFAN II	ND	1.31							
ENDOSULFAN SULFATE	ND	1.31	•						
ENDRIN	ND	0.653							
ENDRIN ALDEHYDE	ND	1.63							
ENDRIN KETONE	ND	1.63							
HEPTACHLOR	ND	0.653							
HEPTACHLOR EPOXIDE	ND	0.653	"						
ALPHA-CHLORDANE	ND	0.653	,,						
METHOXYCHLOR	ND ND	1.63	n						
			**						
GAMMA-CHLORDANE	ND ND	0.653	,,						
TOXAPHENE	טא	13.1							

This report may not be reproduced except in full.



REPORT DATE:

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 18 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/Analyte	Result	Detection Limit	Units	Spike Level	Source Result %REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch 6J30003 - *** Organic P	rep_***								
QC SAMPLE: Reference (6J30003-SRM1)					Prepared: 10/25/06	Analyzed: 1	10/30/06		
ALDRIN	4.86	0.653	mg/L	5.00	97.2	50-150			
ALPHA-BHC	4.73	0.327		5.00	94.6	50-150			
BETA-BHC	4.06	0.653	н	5.00	81.2	50-150			
GAMMA-BHC (LINDANE)	4.51	0.327	"	5.00	90.2	50-150			
DELTA-BHC	4.82	0.653	**	5.00	96.4	50-150			
4,4-DDD	5.15	1.31	**	5.00	103	50-150			
4,4-DDE	5.18	0.653		5.00	104	50-150			
4,4-DDT	5.39	1.31	**	5.00	108	50-150			
DIELDRIN	5:01	0.653	**	5.00	100	50-150			
ENDOSULFAN I	5.17	0.653		5.00	103	50-150			
ENDOSULFAN II	4.98	1.31	"	5.00	99.6	50-150			
ENDOSULFAN SULFATE	5.04	1.31	10	5.00	101	50-150			
ENDRIN	4.70	0.653	,,	5.00	94.0	50-150			
ENDRIN ALDEHYDE	5.06	1.63		5.00	101	50-150			
ENDRIN KETONE	5.05	1.63	"	5.00	101	50-150			
HEPTACHLOR	4.99	0.653		5.00	99.8	50-150			
HEPTACHLOR EPOXIDE	4.92	0.653	11	5.00	98.4	50-150			
ALPHA-CHLORDANE	4.77	0.653	,,	5.00	95.4	50-150			
METHOXYCHLOR	4.77	1.63	"	5.00	95.4	50-150			
GAMMA-CHLORDANE	5.25	0.653	11	5.00	105	50-150			
QC SAMPLE: Reference (6J30003-SRM2)					Prepared: 10/25/06	Analyzed: 1	10/30/06		
ALDRIN	4.67	0.653	mg/L	5.00	93.4	50-150			
ALPHA-BHC	4.62	0.327		5.00	92.4	50-150			
BETA-BHC	. 3.38	0.653		5.00	67.6	50-150			
GAMMA-BHC (LINDANE)	4.72	0.327	**	5.00	94.4	50-150			
DELTA-BHC	4.64	0.653	n	5.00	92.8	50-150			
4,4-DDD	5.49	1.31	11	5.00	110	50-150			
4,4-DDE	5.27	0.653	10	5.00	105	50-150			
4,4-DDT	5.48	1.31	"	5.00	110	50-150			
DIEŁDRIN	4.83	0.653		5.00	96.6	50-150			
ENDOSULFAN I	5.10	0.653		5.00	102	50-150			
ENDOSULFAN II	5.05	1.31	ш	5.00	101	50-150			
ENDOSULFAN SULFATE	4.95	1.31		5.00	99.0	50-150			
ENDRIN	5.12	0.653	11	5.00	102				
ENDRIN ALDEHYDE	5.18	1.63	II .	5.00	104				
ENDRIN KETONE	5.10	1.63	п	5.00	102				
HEPTACHLOR	4.94	0.653	11	5.00	98.8	50-150			
HEPTACHLOR EPOXIDE	4.80	0.653	**	5.00	96.0				
ALPHA-CHLORDANE	4.81	0.653	11	5.00	96.2				
METHOXYCHLOR	4.85	1.63	**	5.00	97.0				
GAMMA-CHLORDANE	4.96	0.653	"	5.00	99.2	50-150			

This report may not be reproduced except in full.



REPORT DATE:

A-01c

SRM-1

11/03/06 08:29

REPORT NUMBER:6102501

PAGE: 19 OF 19

Semi-Volatile Organics by Gas Chromatography/ECD - Quality Control

Batch/Sample/A	Analyte	Result	Detection Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
BATCH: Batch	6J30004 - *** Organic F	rep ***									
QC SAMPLE:	Calibration Blank (6J30004	-CCB1)				Prepared:	10/25/06	Analyzed: 1	10/30/06		
AROCHLOR 1016		ND	0.49	mg/L							
AROCHLOR 1221		· ND	0.49	"							
AROCHLOR 1232		ND	0.49	**							
AROCHLOR 1242		ND	0.49								
AROCHLOR 1248		ND	0.49								
AROCHLOR 1254		ND	0.49	"							
AROCHLOR 1260		ND	0.49	"							
QC SAMPLE:	Calibration Blank (6J30004	-CCB2)				Prepared:	10/25/06	Analyzed: 1	10/30/06		
AROCHLOR 1016		ND	0.49	mg/L							
AROCHLOR 1221		ND	0.49								
AROCHLOR 1232		ND	0.49								
AROCHLOR 1242		ND	0.49								
AROCHLOR 1248		ND	0.49								
AROCHLOR 1254		ND	0.49	D.							
AROCHLOR 1260		ND	0.49	n							
QC SAMPLE:	Reference (6J30004-SRM1))				Prepared:	10/25/06	Analyzed: 1	10/30/06		
AROCHLOR 1260		1.45	0.49	mg/L	2.00		72.5	50-150			
QC SAMPLE:	Reference (6J30004-SRM2)				Prepared:	10/25/06	Analyzed: 1	10/30/06		
AROCHLOR 1260		2.15	0.49	mg/L	2.00	•	108	50-150			
Data Qualifiers	S:										_
Qualifier	Notes										_
A-01	Both SRMs were slightly to	ow. Data sh	ould be consider	ed estimate	S.						
A-01a	Problem with NPO&G SRI	M. Data con	sidered estimate	ş.		_					_
A-01b	SRM too low. Data consid	lered estima	tes.						_		_

The recovery of this SRM was high. The batch was accepted on the basis of other reference materials in this batch.

This report may not be reproduced except in full.

SRMs slightly lower. Data considered as estimates.





Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452	Dean Marriott, Director	Dan Saltzman, Commissioner
DATCH DISCHADGE	REQUEST FORM	

	Dill Oil Discilla	COL TOPOLS I OTHE	•
Waste Generator Information		Permit Contact	
·		Information	
Source Name	Cascade General	Name	Charles Isted
		Address	Cascade General
Source Address	5555 N. Channel Ave.		5555 N. Channel Ave
	Portland, OR		•
	97217		Portland, OR 97217
		Telephone Number	503/247-1959
		Facsimile Number	503/247-6050
Batch Information	CWTB	Email Address	cisted@casgen.com
Batch Number:		Proposed Discharge	550,000 gal
		Volume:*	
Request Date/Time:	11/25/2008 0830	Actual Discharge	
		Volume:	
Date Proposed:	11/25/2008	Sampling Location:	Tank-7, BWTP
Duration of Discharge:	Start: 11/25/08 1200	Stop: 11/29/08	Sampled? YES NO
Detail the Process(es) Ger	nerating Wastewater & W	astewater Characteristic	es
CWT-B	-		

Discharge flow will be s	stopped if heavy rain develops. F	low will be held below	180 gpm.
Are the analysis sheets, (OA/QC and chain of custody attach	ned? YES or NO	(circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2008

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	(funda)	Date:	11-25-88

All self-monitoring reports (SMR) must include the following to be considered complete. For more detailed information regarding these items, please refer to the colored reference sheet. If you have any questions, please contact your permit manager for assistance.

Self Monitoring Report Check List:

- ρ Chain of Custody form
- ρ Analytical Results with Method Detection Limits (MDL)
- ρ QA/QC Results
- ρ Signed Signatory Certification Statement (Printed on bottom of SMR)
- ρ Completed Self Monitoring Report form

To assure prompt delivery, mail all monitoring results to:

Industrial Source Control Division Water Pollution Control Laboratory 6543 N. Burlington Avenue Portland, OR 97203-5452

Attn: Biola Cruse

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Vigor Industrial

PERMIT NUMBER:

437.003

REPORT DUE DATE:

Prior to Batch Approval

SAMPLING PERIOD:

Ballast Water Treatment Plant Effluent - (CWT - B)

For Industrial Source Control Division Us									
Date Postmarked/Received	Date Entered								
	Entered By:								
Comments:									

SAMPLE DATE	POINT OF	COMPLIANO	OMPLIANCE SAMPLE TYPE						
10-27-08	C	WT2B		GRAB					
PARAMETER	ANALYSIS METHOD	the section at the article and the arms that the articles	REPORTED CONCENTRATION		design of the control		EI DAILY	MITS MONTHLY	- C0
HEM Oil and Grease (Non-Polar)	EPA 1664- SGT			4.72 mg/L	110 mg/L	N/A	Local Limi		
pH	EPA 150.1	8.24	pH Units		5.0 - 11.5	N/A	Local Lim		
Bis-2-ethyhexylphthalate	EPA 625 SIM	ND	mg/L	0.0595 mg/L	0.267 mg/L	0.158 mg/L	commission of the commission o		
Carbazole	EPA 625 SIM	0.0109	mg/L	0.00476 mg/L	0.392 mg/L	0.233 mg/L	The state of the s		
Fluoranthane	EPA 625 SIM	0.00476	mg/L	0.00476 mg/L	0.787 mg/L	0.393 mg/L	to the second se		
п-Decane	EPA 625 SIM	ND	mg/L	0.0357 mg/L	5.79 mg/L	3.31 mg/L	Section 1		
n-Octadecane	EPA 625 SIM	ND	mg/L	0.0238 mg/L	1,22 mg/L	0.925 mg/L			
Pentachlorophenol (PCP)	EPA 625 SIM	ND	mg/L	0.0305 mg/L	.040 mg/L				

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

SAMPLE DATE	POINT OF	POINT OF COMPLIANCE SAMPLE TYPE		The state of the s			
10-27-08	CV	WT2B	/T2B C0				
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION -		miller in its second and its second	LI DAILY	CΘN	
Antimony	EPA 200.8	ND	mg/L	0.00450 mg/L	0.237 mg/L	0.141 mg/L	
Barium (Total)	EPA 200.8	0.0174	mg/L	0.00450 mg/L	0.427 mg/L	0.281 mg/L	
Chremium (Total)	EPA 200.8	0.0125	mg/L	0.00450 mg/L	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	ND	mg/L	0.00900 mg/L	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	ND	mg/L	0.0225 mg/L	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00450 mg/L	0.222 mg/L	0.172 mg/L	

Molybdenum (Total)	EPA 200.8	0.118	mg/L	0.00900 mg/L	1.4 mg/L 2.09 mg/L
Tin (Total)	EPA 200.7	ND	mg/L	0.25 mg/L	0.249 mg/L 0.146 mg/L
Zinc (Total)	EPA 200.8	0.0796	mg/L	0.0180 mg/L	3.7 mg/L 4.46 mg/L

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date:

11-25-08

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Thursday, November 13, 2008

Bob Collinson VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for work order <u>A810262</u>, which was received by the laboratory on 10/27/2008 at 2:51:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION										
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received						
T-7-10-27-08 Sub Cat 'B'- Grab	A810262-01	Water	10/27/08 13:00	10/27/08 14:51						
T-7-10-27-08 Sub Cat 'B'- Composite	A810262-02	Water	10/27/08 13:00	10/27/08 14:51						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 11/13/08 16:33

ANALYTICAL SAMPLE RESULTS

	Purgeable Organic Compounds by EPA 624											
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method .	Notes				
T-7-10-27-08 Sub Cat 'B'- Grab		Matrix: W	ater				R-04					
Acrylonitrile	ND		0.500	mg/L	500	10/30/08 01:34	EPA 624					
Chlorobenzene	ND	0.116	0.250	п	•	•	17					
Chlorofonn	ND	0.500	1.00	н	n		B.					
1,2-Dichloroethane (EDC)	ND	0.151	0.250	и	ø	,,	n					
Trichloroethene (TCE)	ND .	0.0965	0.250	u	17	D	M					
Surrogate: Dibromofluorometh	ane (Surr)	Reco	very: 106 %	Limits: 80-120 %	1	11	17					
1,4-Difluorobenzene (Surr)			105 %	Limits: 80-120 %	ti	te	n					
Toluene-d8 (Surr)			101 %	Limits: 80-120 %	***	17	11					
4-Bromofluorobenz	ene (Surr)		101 %	Limits: 80-120 %	и	u,	N .					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

ANALYTICAL SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)													
			Reporting	2										
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes						
T-7-10-27-08 Sub Cat 'B'- Grab	(A810262-01)		Matrix: W	ater										
Pentachlorophenol (PCP)	ND		0.0305	mg/L	200	10/31/08 21:12	EPA 625 SIM	Q-08, Q-25						
Surrogate: Nitrobenzene-d5 (Si	urr)		Recovery: %	Limits: 35-120 %	17	(r	9	S-01						
2,4-Dibromophenol	(Surr)		%	Limits: 30-125 %	III	ir	v	S-01						
2-Fluorobiphenyl (S	Surr)		78 %	Limits: 45-120 %	n	n	(/	J. S-01						
p-Terphenyl-d14 (Si	urr)		%	Limits: 30-120 %	п	. н	I7	S-01						
T-7-10-27-08 Sub Cat 'B'- Grab	(A810262-01RE1)		Matrix: W	ater										
Bis(2-ethylhexyl)phthalate	ND		0.0595	mg/L	50	11/04/08 11:30	EPA 625 SIM							
Carbazole	0.0109		0.00476	n	**	11	ų							
2,4-Dinitrotoluene	ND		0.119	77	47	u .	19							
Decane	ND		0.0357	· ·	17	п	n	R-01						
Fluoranthene	ND		0.00476	If		11	п							
Nitrobenzene	ND		0.0119	H	'n	19	H							
Octadecane	ND		0.0238	и	, ·	н	н							
Surrogate: Nitrobenzene-d5 (St	rr)	Reco	overy: 423 %	Limits: 35-120 %		11	ŋ	S-05						
2-Fluorobiphenyl (S	urr)		104%	Limits: 45-120 %	11	u	Ħ							
p-Terphenyl-d14 (St.	nr)		204 %	Limits: 30-120 %	0	n .	n n	S-05						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

ANALYTICAL SAMPLE RESULTS

		To	tal Metals by EF	PA 200.8 (10	CPMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-7-10-27-08 Sub Cat 'B'- Compos	ite (A810262-02))	Matrix: Water				-	
Antimony	ND	'	0,00450	mg/L	1	10/30/08 14:54	EPA 200.8	
Arsenic	0.0128		0.00450	n	11	81	u	
Barium	0.0174		0.00450	n	н	e e	tt	
Cadmium	ND		0.00450	n	п	p	u'	
Chromium	0.0125		0.00450	u .	n	п	n	
Cobalt .	ND		0.00900	u	n	· #	n	
Copper	ND		0.0225	n	n	n		
Lead	ND		0.00450	n	D.	n	ja .	
Molybdenum	0.118		0.00900	н	D.	10	n	
Nickel	0.139		0.00450	n	ρ	v	n	
Selenium	0.0220	~	0.00450	n	v	e	n	
Silver	ND		0.00900	p	n	н	v	
Zinc	0.0796		0.0180	11	H	र्ग	D.	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

ANALYTICAL SAMPLE RESULTS

		Con	ventional Ch	emistry Para	meters			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-7-10-27-08 Sub Cat 'B'- Grab (A8	310262-01)		Matrix: Wate	er				
HEM (Oil and Grease)	11.0		4.72	mg/L	1	10/29/08 16:07	EPA 1664	
SGT-HEM (Non-polar Material)	ND		4.72	υ	h	10/30/08 15:46	EPA 1664-SGT	
рН	8.24			pH Units	"	10/27/08 18:31	EPA 150.1	
pH Temperature	14.5			deg C	19	TF.	n	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	De	terminatio	on of Organ	ochlorine Insect	ticides & F	CBs		
Analyte	Result	MDL	Reportin Limit	g Units	Dilution	Date Analyzed	Method	Notes
T-7-10-27-08 Sub Cat 'B'	'- Grab (A810262-01)		Matrix: W	ater ater				
Chlordane	ND		0.00200	mg/l	20	10/31/08 15:03	EPA 608	
Surrogate: Tetrachlor	o-m-xylene	Rece	overy: 391 %	Limits: 60-139 %	11	9	н	S-0.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	De	terminati	on of Conventi	onal Chemi	stry Parame	eters		
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-7-10-27-08 Sub Cat 'B'- C	Grab (A810262-01)		Matrix: Water	•				
Cyanide, total	0.015		0.007	mg/l	1	10/29/08 14:25	SM 4500CN-E	
Sulfide, total	1.9		0.30	н	3	10/30/08 11:05	EPA 376.2	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

			Determination	of Total Me	tals			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
T-7-10-27-08 Sub Cat 'B'- Co	mposite (A810262-0	2)	Matrix: Water					
Mercury, total	ND		0.00050	mg/l	1	10/31/08 14:36	EPA 245.1	
Tin, total	ND		0.25	"	U	10/31/08 15:44	EPA 200.7	

Apex Laboratories

 ~ 40

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

			Purgeable	Organi	c Compou	inds by EP	A 624					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100388 - EPA 5030B							Wat	<u>e</u> r				
Blank (8100388-BLK1)						Analyzed:	10/29/08 19	:31				
EPA 624												
Acrylonitrile	ND		0.00100	mg/L	1							
Chlorobenzene	ND	0.000233	0.000500	n	n							
Chloroform	ND	0.00100	0.00200	H	n							
1,2-Dichloroethane (EDC)	ND	0.000302	0.000500	н	n							
Trichloroethene (TCE)	ND	0.000193	0.000500	в	11							
Surr: Dibromofluoromethane (Surr)		Reco	very: 99 %	Limits:	80-120 %	Dil	ution: Ix					
1,4-Difluorobenzene (Surr)			101 %		80-120 %		n					
Toluene-d8 (Surt)			101 %		80-120 %		n					
4-Bromofluorobenzene (Surr)			101 %		80-120 %		,,					
LCS (8100388-BS1)						Analyzed:	10/29/08 17	:59				
EPA 624										·	*****	
Acrylonitrile	0.0224	}	0.00100	mg/L	. 1	0.0200		112	70-130%			
Chlorobenzene	0.0196	0.000233	0.000500	19	11	11		98	"			
Chloroform	0.0190	0.00100	0.00200	17	**	11		95	9			
1,2-Dichloroethane (EDC)	0.0196	0.000302	0.000500	u u	**	n		98				
Trichloroethene (TCE)	0.0210	0.000193	0.000500	ii ii		η		105				
Surr: Dibromofluoromethane (Surr)		Reco	very: 99 %	Limits:	80-120 %	Dil	ution: İx					
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"					
Toluene-d8 (Surr)			99 %		80-120 %		"					
4-Bromofluorobenzene (Surr)			100 %		80-120 %		"					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported:

11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

	Sem	ivolatile	e Organic C	ompoun	us by EPA	1 UZU IYIUUI	uea (Silvi	Analysi	? <i>1</i>			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100409 - EPA 3510C							Wat	ter				
Blank (8100409-BLK1)						Analyzed:	10/31/08 19	2:52				
EPA 625 SIM									·			******
Pentachlorophenol (PCP)	ND		0.000160	. mg/L	1							Q-25
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 100 %	Limits:	35-120 %	Dil	ution: 1x					
2,4-Dibromophenol (Surr)			127 %		30-125 %		"					S-07
2-Fluorobiphenyl (Surr)			88 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			72 %		30-120 %		"					
Blank (8100409-BLK2)						Analyzed:	11/04/08 10):14				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	ND		0.00125	mg/L	1							B-02
Carbazole	ND		0.000100	***	er							B-02
2,4-Dinitrotoluene	ND		0.00250	n	n							B-02
Decane	ND		0.000500	n	н							
Fluoranthene	ND		0.000100	•	n							
Nitrobenzene	ND		0.000250	n	*							B-02
Octadecane	ND		0.000500	n	11							
Surr: Nitrobenzene-d5 (Surr)	7	Rec	overy: 84 %	Limits:	35-120 %	Dili	ution: lx					
2-Fluorobiphenyl (Surr)			97 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			95 %		30-120 %		fi					
LCS (8100409-BS1)						Analyzed: 1	10/31/08 20	:19				
EPA 625 SIM		****			- /							
Pentachlorophenol (PCP)	0.00643		0.000800	mg/L	5	0.00500		129	40-120%			Q-08, Q-25
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 93 %	Limits:	35-120 %	Dila	ution: 5x					<u>x</u>
2,4-Dibromophenol (Surr)			108 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			85 %		45-120 %		tt					
p-Terphenyl-d14 (Surr)			72 %		30-120 %		ıı					
LCS (8100409-BS2)						Analyzed: 1	11/04/08 10	:39				
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00565		0.00125	mg/L	1	0.00500		113	40-125%			
Carbazole	0.00505		0.000100		17	· n	777	101	h			
2,4-Dinitrotoluene	0.00487		0.000100	11	II.	н		97	*			
Decane	0.00417		0.000500	ч	17	h		83	11			
	0.00544		0.000100	п	•	tı			55-120%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported: 11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

	Semi	volati	le Organic C	ompoun	ds by EPA	4 625 Modi	fied (SIM	Analys	is)			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100409 - EPA 3510C							Wat	ter				
LCS (8100409-BS2)						Analyzed:	11/04/08 10):39				
Nitrobenzene	0.00487		0.000100	mg/L	н	н		97	40-125%			
Octadecane	0.00492		0.000500	h	ri	11		98	n			
Surr: Nitrobenzene-d5 (Surr)		Re	covery: 93 %	Limits:	35-120 %	Dil	ution: Ix					
2,4-Dibromophenol (Surr)			92 %		30-125 %		"					
2-Fluorobiphenyl (Surr)			95 %		45-120%		"					
p-Terphenyl-d]4 (Surr)			95 %		30-120 %		,,					
LCS Dup (8100409-BSD1)						Analyzed:	10/31/08 20	:46				Q-19
EPA 625 SIM						-						
Pentachlorophenol (PCP)	0.00606		0.00800	mg/L	5	0.00500		121	40-120%	6	30%	Q-08, Q-25
Surr: Nitrobenzene-d5 (Surr)		Re	covery: 78 %	Limits:	35-120 %	Dil	ution: 5x					
2,4-Dibromophenol (Surr)			92 %		30-125 %		n					
2-Fluorobiphenyl (Surr)			74 %		45-120 %		n					
p-Terphenyl-d14 (Surr)			66 %		30-120 %		n					
LC\$ Dup (8100409-BSD2)						Analyzed:	11/04/08 11	:05				Q-19
EPA 625 SIM									,			
Bis(2-ethylhexyl)phthalate	0.00572		0.00125	mg/L	1	0.00500		114	40-125%	1	30%	
Carbazole	0.00522		0.000100	n	-	**		104	п	3	30%	
2,4-Dinitrotoluene	0.00477		0.000100	19	n	n		95	. "	2	30%	
Decane	0.00383		0.000500	Ð	u	10		77	n	9	30%	
Fluoranthene	0.00554		0.000100	17	H	11		111	55-120%	2	30%	
Nitrobenzene	0.00464		0.000100	e	11	ır		93	40-125%	5	30%	
Octadecane	0.00486		0.000500	*	11	17		97	n	ì	30%	
Surr: Nitrobenzene-d5 (Surr)		Re	covery: 87 %	Limits:	35-120%	Dili	ution: Ix			· ·		
2-Fluorobiphenyl (Surr)			93 %		45-120%		"					
p-Terphenyl-d14 (Surr)			98 %		30-120 %		n					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	5)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100410 - EPA 3015							Wat	er				Market 100
Blank (8100410-BLK1)						Analyzed:	10/30/08 13	:54				
EPA 200.8												
Antimony	ND		0.00100	mg/L	1							
Arsenic	ND		0.0100.0	n	U							
Barium	ND		0.00100	•	19							
Cadmium	ND		0.00100	,	ı)							
Chromium	ND		0.00100	n	st							
Cobalt	ND		0.00200	19	n							
Copper	ND		0.00500	19	n							
Lead	ND		0.00100	17	н							
Molybdenum	ND		0.00200	ıı	71							
Nickel	ND		0.00100	п	n							
Selenium	ND		0.00100	и	11							
Silver	ND		0.00200	н	11						***	
Zinc	ND		0.00400		11							
LCS (8100410-BS1)						Analyzed: 1	10/30/08 14	:10				
EPA 200.8												
Antimony	0.0313		0.00100	mg/L	1	0.0278		113	85-115%			
Arsenic	0.0533		0.00100	ır	n	0.0556	***	96	ıı			
Barium	0.0562		0.00100	ıı	H	ır		101	n			
Cadmium	0.0548		0.00100	n	и	n		99	н			
Chromium	0.0549		00100.0	n	п	rt		99	н			
Cobalt	0.0541		0.00200	*	11			97	n			
Copper	0.0544		0.00500		11	*		98	"			
Lead	0.0552		0.00100	,	"	P		99	r•			
Molybdenum	0.0289		0.00200	n	0	0.0278		104	*			
Nickel	0.0536		0.00100	n	n	0.0556		97	19			
Selenium	0.0266		0.00100	11	m	0.0278		96	10			5 -
Silver	0.0285		0.00200	o o	n			103	**			
Zinc	0.0535		0.00400	17	я	0.0556		96	17			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

A			Conve	ntional Ch	emistry	Paramete	rs 					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100368 - Method I	Prep: Aq						Wa	ter				
Duplicate (8100368-DUP1)			Source: A	810262-01		Analyzed:	10/27/08 18	3:32				
EPA 150.1												
рH	8.23			pH Units	1		8.24			0.121	10%	
pH Temperature	15.7			n	17		14.5			7.95	200%	
Reference (8100368-SRM1)						Analyzed: 1	10/27/08 18	:29				
EPA 150.1												
pH	6.03			pH Units	l	6.00		100 3.33	33-101.667	ri .		
Reference (8100368-SRM2)				,		Analyzed: 1	10/27/08 18	:34				
EPA 150.1	.,											
pН	7.98			pH Units	1	8.00		99.8 98.7	5-101.259	4		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported: 11/13/08 16:33

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	entional Cl	nemistr	y Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8100392 - EPA 1664			·				Wa	ter				
Blank (8100392-BLK1)						Analyzed:	10/29/08 10	5:07				
EPA 1664												
HEM (Oil and Grease)	ND		5.00	mg/L	1	,a tu						
Blank (8100392-BLK2)						Analyzed:	10/30/08 15	5:46				
EPA 1664-SGT	······································								-		-	
SGT-HEM (Non-polar Material)	ND		5.00	mg/L	1							
LCS (8100392-BS1)						Analyzed: 1	10/29/08 16	i:07				
EPA 1664												
HEM (Oil and Grease)	36.7			mg/L	1	40.0		92	78-114%			
LCS (8100392-BS2)						Analyzed: 1	10/30/08 15	5:46				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	15.4			mg/L	1	20.0		77 (64-132%			
Matrix Spike (8100392-MS1)			Source: A	810262-01		 Analyzed: 1	0/29/08 16	:07				
EPA 1664												
HEM (Oil and Grease)	52.7			mg/L	i	38.1	11.0	109	78-114%			
Matrix Spike (8100392-MS2)			Source: A	810262-01		Analyzed: 1	0/30/08 15	:46				
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	13.0			mg/L	1	19.0	4.06	47 6	54-132%			Q-

Apex Laboratories

12232 S.W. Garden Pface Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

		Det	ermination o	of Organo	chlorine	Insecticid	es & PCE	Bs				
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J83104 - 3510C N	NP/OC Sep F	nl			<u></u>		Wat	er				
Blank (1J83104-BLK1)						Analyzed:	10/31/08 15	:35				
EPA 608												
Chlordane	ND		0.0001	mg/l	i							
Surr: Tetrachloro-m-xylene		Recor	ery: 52.1 %	Limits:	60-139 %	Dili	ution: Ix				·~. •~.	S-07

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 16 of 25

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

Determination of Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch	em Preparati	on					Wa	ter				
Blank (1J82930-BLK1)	Analyzed: 10/29/08 14:25											
SM 4500CN-E			MARKET THE STATE OF THE STATE O									
Cyanide, total	ND		0.007	mg/l	1							
LCS (1J82930-BS1)	Analyzed: 10/29/08 14:25											
SM 4500CN-E												
Cyanide, total	0.019		0.007	mg/l	I	0,0200000		95.8	63-138%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 17 of 25

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

Determination of Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting . Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J83011 - Wet Che	m Preparati	on					Wat	ier				
Blank (1J83011-BLK1)	Analyzed: 10/30/08 11:05											
EPA 376.2 Sulfide, total	ND		01.0	mg/l	1							
•					-							
LCS (1J83011-BS1)	Analyzed: 10/30/08 11:05											
EPA 376.2												
Sulfide, total	0.185		0.10	mg/i	ι	0.223000		82.9	50-140%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 18 of 25

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported: 11/13/08 16:33

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

Determination of Total Metals												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J83018 - EPA 301	0A Total ICI	Р					Wat	er		· · · · · · · · · · · · · · · · · · ·		
Blank (1J83018-BLK2)						Analyzed:	10/31/08 15	:44				
EPA 200.7							,					
Tín, total	ND		0.25	mg/l	1							
LCS (1J83018-B\$2)	Analyzed: 10/31/08 15:44											
EPA 200.7									, , , , , ,			
Tin, total	2.09		0.25	mg/l	1	2.00000		104	75-125%			
Post Spike (1J83018-PS2)	Source: 18J1490-02					Analyzed: 10/31/08 15:44						
EPA 200.7												
Tin, total	2.20			mg/l	1	1.92308	0.000962	114	75-125%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 19 of 25

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

			Det	terminatio	n of To	tal Metals						
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1J83022 - EPA 7470A F	lg Water						Wa	ter				
Blank (1J83022-BLK1)		_				Analyzed: 1	10/31/08 14	4:07				
EPA 245.1												
Mercury, total	ND		0.00050	mg/l	1							
LCS (1J83022-BS1)						Analyzed: 1	0/31/08 14	4;08				
EPA 245.1			 -									
Mercury, total	0.00225		0.00050	mg/l	ì	0.00250000		90.0	63-140%			
Matrix Spike (1J83022-MS1)			Source: A	810262-02		Analyzeď: 1	0/31/08 14	4:38				
EPA 245.1												
Mercury, total	0.00192		0.00050	mg/l	1	0.00250000	ND	76.8	60-140%			
Matrix Spike Dup (1J83022-MSD1)			Source: A	810262-02		Analyzed: 1	0/31/08 14	4:40				
EPA 245.1		_										
Mercury, total	0.00163		0.00050	mg/l	1	0.00250000	ND	65.2	60-140%		21%	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Co	mpounds by EPA 624			
Prep: EPA 5030B Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8100388 A810262-01	Water	EPA 624	10/27/08 13:00	10/29/08 14:35	5mL/5mL	5mL/5mL	1.00
		Semivolatile Org	ganic Compounds by	y EPA 625 Modified (S	SIM Analysis)		
Prep: EPA 3510C Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8100409 A810262-01 A810262-01RE1	Water Water	EPA 625 SIM EPA 625 SIM	10/27/08 13:00 10/27/08 13:00	10/30/08 09:54 10/30/08 09:54	1050mL/5mL 1050mL/5mL	1000mL/5mL 1000mL/5mL	0.95 0.95
			Total Metals by EP	A 200.8 (ICPMS)			
Prep: EPA 3015 Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8100410 A810262-02	Water	EPA 200.8	10/27/08 13:00	10/30/08 09:58	10mL/50mL	45mL/50mL	4.50
			Conventional Chem	nistry Parameters			
Prep: EPA 1664 Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8100392 A810262-01 A810262-01	Water Water	EPA 1664 EPA 1664-SGT	10/27/08 13:00 10/27/08 13:00	10/29/08 09:00 10/29/08 09:00	1N/A/1N/A 1N/A/1N/A	1N/A/1mL 1N/A/1mL	NA NA
Prep: Method Prep Lab Number	: Aq Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8100368 A810262-01	Water	EPA 150.1	10/27/08 13:00	10/27/08 15:15	20mL/20mL	20mL/20mL	NA

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

Keystone Laboratories, Inc. - Newton SAMPLE PREPARATION INFORMATION

		Determi	nation of Organochl	orine Insecticides & F	CBs		
Prep: 3510C NP/C					Sample Initial/Final	Default Initial/Final	RL Prep Factor
Lab Number	Matrix	Method	Sampled	Prepared		muanrmai	ractor
A810262-01	Water	EPA 608	10/27/08 13:00	10/30/08 00:00	1054ml/5ml	1000ml/5mL	0.95
		Determi	nation of Convention	nal Chemistry Parame	eters		
Prep: Wet Chem F	reparation		·		Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1J82930 A810262-01	Water	SM 4500CN-E	10/27/08 13:00	10/29/08 14:25	50ml/50ml	50ml/50mL	1.00
Batch: 1J83011 A810262-01	Water	EPA 376.2	10/27/08 13:00	10/30/08 11:05	15ml/15ml	15ml/15mL	1.00
			Determination o	f Total Metals			
Prep: EPA 3010A	Total ICP				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1J83018 A810262-02	Water	EPA 200.7	10/27/08 13:00	10/30/08 13:33	50ml/50ml	50ml/50mL	1.00
Prep: EPA 7470A	Hg Water				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1J83022							
A810262-02	Water	EPA 245.1	10/27/08 13:00	10/30/08 13:48	20ml/20ml	20ml/20mL	1.00

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported:

11/13/08 16:33

Notes and Definitions

Qualifiers:

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL.

J Estimated Result. Result detected below the lowest point of the calibration curve, but above the statistical MDL.

O-01 The percent recovery and/or RPD was outside acceptance limits for this spiked sample. The batch was accepted based on LCS recovery.

Q-08 Recovery of Lab Control Spike or Lab Control Spike Duplicate was above established control limits for this analyte. Analyte was not detected in reported client samples. Data quality is not affected.

Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for

Q-25 Recovery of Continuing Calibration Verification standard was above acceptable limits. Analyte was not detected in reported client samples, therefore Data Quality is not affected.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coefuting organic compounds present in the sample extract.

S-05 Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix

S-07 Surrogate recovery above control limits. Related target analytes were not detected, or detected below reporting limits, therefore data quality is not affected.

S-07a The surrogate recovery for this sample is outside of established control limits.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 23 of 25

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Reported:

Portland, OR 97217

Project Manager: Bob Collinson

11/13/08 16:33

Batch QC Unless specifically stated, all analyses include full Batch QC, including Sample Duplicates, Matrix Spikes and/or Matrix Spike
Duplicates, in order to meet or exceed method and regulatory requirements. This report contains only results for Batch QC derived from
samples included in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample
provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy
and precision of the extraction and analysis.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 11/13/08 16:33

APEX LABS					Ö	ŢV	Z	· (*)	CHAIN OF CUSTODY		á	. >-					~~		Š	(10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		اٍ		
13332 S.W. Garden Place. Pigard. ON 97223. Ph. 503-718-2313 Fax: 503-718-0313	233 PM:	503-715	3.2323 7	(95 : 30)	2.83.6.4	333										Ž	H-		3	4	f .				q,
Coursing PLAS & wall Services	04	\neg	Project Mrr.							Prifee.	"mices Name	()	ング	0	7		Γ	Printer	1	8	8	8	à	â	رېد
144110215555 11 CHOWART	12/2	7	7	0	V		Y. <u>₽</u>	5. € ::	٦ د د	5,43 50	٠	ī, į	g	3,8	0	Ē		إروع) }-j*		9		q۶	q	8
Sampsoto							72 for							1	S REOL	5		190		Į.	3	ar	5	45	0%
Sie Loastoni OR W./. Ottas:	TVIE BY TE	9PIL	XINTANA	A OF CONTARING	ZALLEH HCID	AGHTTWR	BLEX Vallege	AND REDWINGS	ያ ጀርር በሞት ሊር <mark>ር</mark> ን	\$300 AOC\$	2027 PCB4 2270 EE71 [1/1]2	BIGS CIGINA Peat	IS) Soute ANOR	विद्यान क्षेत्रकार विद्या	ህ ይህ ላይ ይፋ መር ርዕ ርዕ ርዕ ርዕ ርዕ ያህ ነገር ነገር ነር ላይ ነገር ነገር ነገር ነገር ነገር ነር ላይ ነገር ነገር ነገር ነገር ነገር ነገር ነገር ነገር ነገር ነገር	(E) Aircair (B)	1701-COF2	2000 9 J 2001	71.5/18 He13	5 579 463	100 PA AG	2 har ba	म्बर्ग क्रिल्डिकार्ट स्थापन	FIZE BAG	JORDIGHE
80-62-01-(-1	10:27		13:00 W.T.	30	\ <u></u>	\vdash	-	L		<u>; </u>	}	_						×	X	12	X	X	×	/ ×	> \
54. h Cat "B"							-	<u> -</u>								<u> </u>				-	-				
Composite										-						<u> </u>		X	×	 	1	<u> </u>	L	L	
Gras	_			_		-		Ц		H		\vdash								X	7	X	2	X	
	-	-		4		-								1				-							
	\dashv		_	_		-												-	\vdash	-					
	\dashv		-	_		\dashv				-															
and the control of a cities as a control of a paper paper and a cities	1	1		No. of Street, or other					I	- 1	-1			İ	***************************************	-						_			
	\dashv	-	-	-	1	-+		_		\dashv	\dashv	4				-		7	\dashv		-		·		
	<u> </u>	-		_]	-	-	_		1	-					4		\dashv	\dashv	\dashv		_			
Merry law seemed ange 1.4 () * 5-15 hanned Res	בון נשטיב	140.5	5-115 Bits	2					<u> </u>	3	Z	SPECIAL BASTRUCTIONS:	ij												
TAT Reguested (Greek) 4 DAY 5 ANDRESS 5 ANDRESS 74 DAY	2d HR 4 DAV	S DE LES	₩ A	72 1TR	72 ITR Other:	04	-1	4																	
RELINQUESIED DR. DR. Spring.	Ż	Deceive our			110	1 C	1.1		Si tech	Negative in the second	RELINGUISIED UN	sï			charge .					STATE	HECRIVED BY:				
Mike Hagerman		充文	-0 IC)	our O Brien	0	13.	5-		Į,	rered Mare	·		· ·		į				[Princed Notes	8	1		T	
Corrected Governo	į		נא	A. C.	X				Continue	194									5	Company	.,				
The state of the s	:	:												Ì										1	

A nav	10	har	ata	7100
Apex	La	$\nu \nu_1$	aw	1103



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Lian Jewell Source Name Cascade General Name Address Cascade General Source Address 5555 N. Channel Ave. 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 503/247-1806 Telephone Number Facsimile Number 503/247-6050 Email Address Batch Information CWTBliewell@vigorindustrial.net Batch Number: Proposed Discharge 500,000 gal Volume:* Request Date/Time: 12/14/2006 8:00am Actual Discharge Volume: Tank-7, BWTP Sampling Location: Date Proposed: 12/15/2006 Duration of Discharge: Start: Stop: Sampled? YES NO Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below Are the analysis sheets, OA/OC and chain of custody attached? YES or NO (circle one) City Use Only Date of Approval: Batch discharge approval: /2006 YES or NO Approved By: Wesley McDaniel Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

.	D. A	
Signature:	Date	e:
0		

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

Comments:

SELF-MONITORING REPORT

For Industrial Source Control Division Use Only
INDUSTRY NAME: Cascade General Org 2159

Date Postmarked/Received Date Entered

REPORT DUE DATE:

PERMIT NUMBER:

Every Batch

437.003B

SAMPLING PERIOD: November 2006

Entered By:

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
11/30/06	CV	VT2B	GRAB			
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATIO	ON MDL	DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	21.6 mg/L	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	5.4 mg/L	2.0	110 mg/L	N/A	
Cyanide	SM 4500	0.004 mg/L	0.003	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND	1.0	4.0 mg/L	N/A	
рН	EPA 150.1	9.53 SU		5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND	0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND	0.0310	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND	0.0100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND	0.0310	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND	0.0310	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND	0.0200	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND	0.0005	0.2 mg/L	N/A	La Lea
Chloroform	EPA 624	ND	0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND	0.0310	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND	0.0310	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND	0.0310	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND	0.0310	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND	0.155	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	0.0014 mg/L	0.0005	0.2 mg/L	N/A	

^{1.} If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE	New York		
11/30/06	CW	/T2B	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.020	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	0.024 mg/L	0.010	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.059 mg/L	0.002	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	0.016 mg/L	0.003	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	0.104	0.005	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.010	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	0.006 mg/L	0.005	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	0.005 mg/L	0.005	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND	0.00005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	0.25 mg/L	0.005	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	0.088 mg/L	0.020	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	0.14 mg/L	0.10	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND	0.010	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.040	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	2.4 mg/L	0.003	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME: Cascade General

PERMIT NUMBER: 437.003B

REPORT DUE DATE:

Every Batch

November 2006 SAMPLING PERIOD:

For	Industrial	Source	Control	Division	Use	Only
		0	er 2150			

Date Postmarked/Received **Date Entered**

Entered By: Comments:

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
11/30/06	CV	VT2B	GRAB			
PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRAT		DAILY	MITS MONTHLY	COMMENTS
HEM Oil & Grease (Total) 1	EPA 1664	21.6 mg/L	2.0	N/A	N/A	
HEM Oil and Grease (Non-Polar)	EPA 1664	5.4 mg/L	2.0	110 mg/L	N/A	
Cyanide	SM 4500	0.004 mg/L	0.003	1.2 mg/L	N/A	
Sulfide	EPA 376.1	ND	1.0	4.0 mg/L	N/A	
рН	EPA 150.1	9.53 SU		5.0 - 11.5	N/A	
1,2-Dichloroethane	EPA 624	ND	0.0005	0.5 mg/L	N/A	
2,4-Dinitrotoluene	EPA 625	ND	0.0310	0.13 mg/L	N/A	
Acrylonitrile	EPA 624	ND	0.0100	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND	0.0310	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625	ND	0.0310	0.392 mg/L	0.233 mg/L	
Chlordane	EPA 625	ND	0.0200	0.03 mg/L	N/A	
Chlorobenzene	EPA 624	ND	0.0005	0.2 mg/L	N/A	
Chloroform	EPA 624	ND	0.0005	0.2 mg/L	N/A	
n-Decane	EPA 625	ND	0.0310	5.79 mg/L	3.31 mg/L	
Fluoranthene	EPA 625	ND	0.0310	0.787 mg/L	0.393 mg/L	
Nitrobenzene	EPA 625	ND	0.0310	2.0mg/L	N/A	
n-Octadecane	EPA 625	ND	0.0310	1.22 mg/L	0.925 mg/L	
Pentachlorophenol	EPA 625	ND	0.0310	0.04 mg/L	N/A	
Trichloroethylene	EPA 624	0.0014 mg/L	0.0005	0.2 mg/L	N/A	

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE	TYPE			
11/30/06	CV	VT2B	СОМРО	SITE			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		IDL	DAILY	MITS MONTHLY	COMMENTS
Antimony (Total)	EPA 200.7	ND	0.	020	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.7	0.024 mg/I	0.	010	0.2 mg/L	N/A	
Barium (Total)	EPA 200.7	0.059 mg/I	0.	002	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.7	0.016 mg/I	0.	003	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.7	0.104	0.	005	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.7	ND	0.	010	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.7	0.006 mg/I	0.	005	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.7	0.005 mg/I	0.	005	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.7	ND	0.0	0005	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.7	0.25 mg/L	0.	005	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.7	0.088 mg/I	0.	020	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.7	0.14 mg/L	0	.10	0.6 mg/L	N/A	
Silver (Total)	EPA 200.7	ND	0.	010	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.	040	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.7	2.4 mg/L	0.	003	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

	Signature:		Date:	
--	------------	--	-------	--



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director Dan Saltzman, Commissioner BATCH DISCHARGE REQUEST FORM Waste Generator Information Permit Contact Information Source Name Cascade General Name Lian Jewell Address Cascade General Source Address 5555 N. Channel Ave. 5555 N. Channel Ave Portland, OR 97217 Portland, OR 97217 Telephone Number 503/247-1806 503/247-6050 Facsimile Number **Email Address** Batch Information CWTBljewell@vigorindustrial.net Batch Number: Proposed Discharge 580,000 gal Volume:* Request Date/Time: Actual Discharge 12/14/2007 1500 Volume: Date Proposed: Sampling Location: Tank-7, BWTP 12/18/2007 Duration of Discharge: Stop: Sampled? YES NO Start: Detail the Process(es) Generating Wastewater & Wastewater Characteristics CWT-B Discharge flow will be stopped if heavy rain develops. Flow will be held below 150 gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one) City Use Only Batch discharge approval: YES or NO Date of Approval: /2.007 Approved By: Wesley McDaniel Batch Discharge Denied Due to the Following: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best

of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:

Cascade General

PERMIT NUMBER:

437.003B

REPORT DUE DATE:

Every Batch

SAMPLING PERIOD:

November, 2007

For Industria	Source Contr	ol Division	Use Only
	Org 215	9	

Date Postmarked/Received

Date Entered

Entered By:

Comments:

SAMPLE DATE	POINT OF C	NT OF COMPLIANCE S.		MPLE TYPE					
11/28/2007	CV	VT2B		GRAB					
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRA		MDL	DAILY	MITS MONTHLY	COMMENTS		
HEM Oil & Grease (Total) 1	EPA 1664	6.63 mg/L		4.81	N/A	N/A			
HEM Oil and Grease (Non-Polar)	EPA 1664	ND		4.81	110 mg/L	N/A			
Cyanide	EPA 335.4	ND		0.0050	1.2 mg/L	N/A			
Sulfide	SM 4500	60.8		2.0	4.0 mg/L	N/A	HIGH		
рН	EPA 150.1	7.27 SU			5.0 - 11.5	N/A			
1,2-Dichloroethane	EPA 624	ND		0.100	0.5 mg/L	N/A			
2,4-Dinitrotoluene	EPA 625	ND		0.0952	0.13 mg/L	N/A			
Acrylonitrile	EPA 624	ND		ND		0.600	1.0 mg/L	N/A	
Bis-2- ethylhexylphthalate	EPA 625	ND		0.190	0.267 mg/L	0.158 mg/L	MRL HIGH		
Carbazole	EPA 625	ND		0.0952	0.392 mg/L	0.233 mg/L			
Chlordane	EPA 625	ND		0.00117	0.03 mg/L	N/A	NOT REPORTED		
Chlorobenzene	EPA 624	ND		0.100	0.2 mg/L	N/A			
Chloroform	EPA 624	ND		0. 100	0.2 mg/L	N/A			
n-Decane	EPA 625	ND		0.190	5.79 mg/L	3.31 mg/L			
Fluoranthene	EPA 625	ND		0.0952	0.787 mg/L	0.393 mg/L			
Nitrobenzene	EPA 625	ND		0.0952	2.0mg/L	N/A			
n-Octadecane	EPA 625	625 ND		0.190	1.22 mg/L	0.925 mg/L			
Pentachlorophenol	EPA 625	ND		0.190	0.04 mg/L	N/A	MRL HIGH		
Trichloroethylene	EPA 624	ND		0. 100	0.2 mg/L	N/A			

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent.

SAMPLE DATE	POINT OF C	COMPLIANCE	SAMPLE TYPE			
8/30/2007	CW	/T2B	COMPOSITE			
PARAMETER	ANALYSIS METHOD	REPORTE CONCENTRAT		DAILY	LIMITS DAILY MONTHLY	
Antimony (Total)	EPA 200.8	0.00180 mg/	L 0.00100	0.237 mg/L	0.141 mg/L	
Arsenic (Total)	EPA 200.8	0.0116 mg/l	L 0.00100	0.2 mg/L	N/A	
Barium (Total)	EPA 200.8	0.0131 mg/l	L 0.00100	0.427 mg/L	0.281 mg/L	
Cadmium (Total)	EPA 200.8	ND	0.00100	0.7 mg/L	N/A	
Chromium (Total)	EPA 200.8	0.00404 mg/	/L 0.00100	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	0.00951 mg/	L 0.00100	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	0.00971 mg/	L 0.00200	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	0.00800 mg/	L 0.00100	0.222 mg/L	0.172 mg/L	
Mercury (Total)	EPA 245.1	ND	0.00200	0.01 mg/L	N/A	
Molybdenum (Total)	EPA 200.8	0.0175 mg/I	L 0.00200	1.4 mg/L	N/A	
Nickel (Total)	EPA 200.8	0.0985 mg/l	L 0.00200	2.8 mg/L	N/A	
Selenium (Total)	EPA 200.8	ND	0.00200	0.6 mg/L	N/A	
Silver (Total)	EPA 200.8	ND	0.00100	0.4 mg/L	N/A	
Tin (Total)	EPA 200.7	ND	0.0200	0.4 mg/L	N/A	
Zinc (Total)	EPA 200.8	0.0273	0.00500	3.7 mg/L	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Date:	



9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

December 14, 2007

Lian Jewell Cascade General, Inc. 5555 N Channel Bldg #10 Portland, OR 97217

RE: CWT-Subcategory B

Enclosed are the results of analyses for samples received by the laboratory on 11/28/07 16:40. The following list is a summary of the Work Orders contained in this report, generated on 12/14/07 13:28.

If you have any questions concerning this report, please feel free to contact me.

	•	
Work Order	<u>Project</u>	<u>ProjectNumber</u>
PQK 0978	CWT-Subcategory B	na

TestAmerica Portland

Bream L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217

Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-7-11-28-07	POK0978-01	Water	11/28/07 14:45	11/28/07 16:40

TestAmerica Portland

Brean L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Oil and Grease Analysis per EPA Method 1664

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01 (T-7-11-28-07)		Wa	iter		Sam	pled: 11/2	8/07 14:45			
Oil & Grease	EPA 1664	6,63		4.81	mg/l	łx	7120263	12/07/07 13:30	12/10/07 10:50	
Oil & Grease (non-polar)	"	ND		4.81			"	**	12/10/07 16:56	
Oil & Grease (polar)	[CALC]	6.63	*****	4.81		•	[CALC]	**	n n	

TestAmerica Portland

Bran L Come





PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217

Project Number:

Report Created: 12/14/07 13:28

Project Manager: Lian Jewell

Total Metals per EPA 200 Series Methods

TestAmerica Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01	(T-7-11-28-07)		Wa	Water				8/07 14:45			
Antimony		. EPA 200.8	0.00180		0.00100	mg/l	lx	7120159	12/05/07 13:18	12/08/07 04:11	
Arsenic		n.	0.0116		0.00100	н	"	"	"	n .	
Barium		**	0.0131	F0000	0.00100	"	и		"	u u	
Cadmium			ND		0.00100	**		п	U	**	
Chromium		н	0.00404		0.00100	*		"	۰.	**	
Cobalt		н	0.00951	•	0.00100	**	и	"	"	Ħ	
Copper			0.00971	****	0.00200	,,	u	ii .	•	*	
Lead		**	0.00800		0.00100	"	**	"	"	n	
Molybdenum		"	0.0175		0.00500	,,	**	e e		n	
Vickel		n	0.0985		0.00200		,,	"	*	п	
Selenium		n	ND		0.00200		"	"	**	n	
Silver		n	ND		0.00100	ш	"	*		п	
Γin		EPA 200.7	ND		0.0200	N		7120225	12/06/07 13:39	12/08/07 01:02	
Line		EPA 200.8	0.0273		0.00500	n	n .	7120159	12/05/07 13:18	12/08/07 04:11	

TestAmerica Portland

Bream L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number:

na

Report Created:

Project Manager: Lian Jewell

12/14/07 13:28

Total Mercury per EPA Method 245.1

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01 (T-7-11-28-07)		Wa	iter		Sam	pled: 11/2	8/07 14:45			
Mercury	EPA 245.1	ND		0,00200	mg/l	lx	7111091	11/29/07 10:54	11/29/07 15:41	RLI

TestAmerica Portland

Bean L Come





THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. **CWT-Subcategory B** Project Name:

5555 N Channel Bldg #10 Report Created: Project Number: Portland, OR 97217 Project Manager: Lian Jewell 12/14/07 13:28

Purgeables per EPA Method 624 Modified

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01 (T-7-11-28-07)		Wa	iter		Sampl	ed: 11/2	8/07 14:45			RL
Acrylonitrile	EPA 624	ND		0.600	mg/l	100x	7111118	11/29/07 19:04	11/30/07 10:24	
Benzene	a	ND		0.100	n .		**	"	te.	
Bromodichloromethane	"	ND		0.100	"	**	**	"	•	
Bromoform	ti.	ND		0.100	"	н	**	"	**	
Bromomethane	**	ND		0.500	"	*	*	"	"	
Carbon tetrachloride	19	ND		0.100		**	"	"	"	
Chlorobenzene	n	ND		0.100	"	"	"	"		
Chloroethane	"	ND		0.500	u	"	*	"	**	
Chloroform	Ü	ND	****	0.100	*		"	"	•	
Chloromethane	D	ND		0.500		н	*	n	**	
Dibromochloromethane	и	ND		0.100	**	"	"	· ·	17	
1,2-Dichlorobenzene	*	ND		0.100	*	н	n			
1,3-Dichlorobenzene	**	ND		0.100	"		n	"	"	
1,4-Dichlorobenzene	**	ND		0.100	"		ıı	n n	"	
1,1-Dichloroethane	**	ND		0.100	"		II .		n	
1,2-Dichloroethane	"	ND		0.100		"	ш	"	n	
1,1-Dichloroethene	п	ND		0.100	u .	"		**	н	
trans-1,2-Dichloroethene		ND		0.100	n	"	"	**	n	
1,2-Dichloropropane	п	ND		0.100	н	**	"	#		
cis-1,3-Dichloropropene	n .	ND		0.100	n	"		"	n	
trans-1,3-Dichloropropene	н	ND		0.100	**		,,	"	ч	
Ethylbenzene		ND		0.100	**		"	**	н	
Methylene chloride	"	ND		0.500	"	**	м	n	"	
1,1,2,2-Tetrachloroethane	*	ND		0.100	*	"	•	"	"	
Tetrachloroethene .		ND		0.100	**	**	**	"	"	
Toluene	ш	0.140		0.100	*	,,	"		**	
1,1,1-Trichloroethane	"	ND		0.100		"		н	•	
1,1,2-Trichloroethane	"	ND		0.100	*	"	**		u .	
Trichloroethene	н	ND		0.100			*		*	
Trichlorofluoromethane	n	ND		0.100				,,		
Vinyl chloride	æ	ND		0.100	u		"	u	19	
Surrogate(s): 4-BFB			88.8%		75 - 120 %	1x		 -	n	
1,2-DCA-d4			108%		77 - 129 %	,,			"	
Dibromofluorometh	ane		102%		80 - 121 %	"			"	
Toluene-d8			102%		80 - 120 %	"			"	

TestAmerica Portland

Becan L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.

Brian Cone, Industrial Services Manager





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

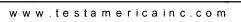
Purgeables per EPA Method 624 Modified

TestAmerica Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01RE	1 (T-7-11-28-07)		Wa	iter		Sampl	ed: 11/2	8/07 14:45			RL7
Acrolein		EPA 624	ND		0.100	mg/l	10x	7111167	11/30/07 14:18	11/30/07 22:54	
Surrogate(s):	4-BFB	170		100%		75 - 120 %	Ix			"	
	1,2-DCA-d4			101%		77 - 129 %	"			"	
	Dibromofluoromethane			99.7%		80 - 121 %	"			,	
	Toluene-d8			99.6%		80 - 120 %	"			"	

TestAmerica Portland

Brian Cone, Industrial Services Manager







9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

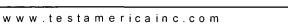
Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01	(T-7-11-28-07)		Wa	ater		Sampl	ed: 11/2	8/07 14:45			R
2,4-Dinitrotoluene		EPA 625	ND		0.0952	mg/l	10x	7120034	12/03/07 11:56	12/05/07 21:24	
Bis(2-ethylhexyl)ph	thalate	··	ND		0.190	н	"	"	"	1	
Fluoranthene		н	ND		0.0952	н	"	u	"	"	
Nitrobenzene			ND		0.0952	н		u	н	*	
Pentachlorophenol			ND		0.190			u	n	**	
Carbazole		"	ND		0.0952	п	"	"	"	*	
n-Decane		m .	ND		0.190	н	D	"	п	"	C, A-01
n-Octadecane		n .	ND		0.190	*	n	"	ii	ь	A-01
Surrogate(s):	2-Fluorobiphenyl			97.1%		22 - 120 %	"			"	Z3
	2-Fluorophenol			77.2%		5 - 120 %	"			"	
	Nitrobenzene-d5			93.3%		26 - 127 %	"			"	Z3
	Phenol-d6			94.3%		4 - 121 %	"			"	
	p-Terphenyl-d14			104%		37 - 130 %	"			"	Z3
	2,4,6-Tribromophenol			88.1%		21 - 129 %	"			n	

TestAmerica Portland

Bean L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number:

na

Report Created: 12/14/07 13:28

Project Manager: Lian Jewell

Conventional Chemistry Parameters per APHA/EPA Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01 (T-7-11-28-0	7)	Wa	iter		Samp	led: 11/2	8/07 14:45			
Cyanide (total)	EPA 335.4	ND		0.00500	mg/l	lx	7120012	12/03/07 08:10	12/03/07 14:53	
pH	150.1/9040A	7.27			pH Units	"	7111068	11/28/07 21:38	11/28/07 22:25	

TestAmerica Portland

Bean L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. 5555 N Channel Bldg #10

Portland, OR 97217

Project Name:

CWT-Subcategory B

Project Number:

na

Report Created:

Project Manager:

Lian Jewell

12/14/07 13:28

Conventional Chemistry Parameters per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQK0978-01 (T-7-11-28-07))	Wa	iter		Sam	pled: 11/2	8/07 14:45	_		
Sulfide	SM 4500-S-2 F	60,8	*****	2.00	mg/l	lx	7120171	12/05/07 15:12	12/05/07 15:15	

TestAmerica Portland

Becom L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. Project Name: CWT-Subcategory B

5555 N Channel Bldg #10Project Number:naReport Created:Portland, OR 97217Project Manager:Lian Jewell12/14/07 13:28

	Oil and Gro	ease Analysi	-		1664 - I a Portland		tory Qua	ality Contro	l Results	3			
QC Batch: 7120263	Water P	reparation N	lethod: Od	&G prep	CE							<u></u>	
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike "/ Amt REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7120263-BLK1)								Extracted:	12/07/07 11	1:30			
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx						12/10/07 10:50	-
Blank (7120263-BLK2)								Extracted:	12/07/07 11	:30			
Oil & Grease (non-polar)	EPA 1664	ND		5.00	mg/l	lx						12/10/07 16:56	
LCS (7120263-BS1)								Extracted:	12/07/07 11	:30			
Oil & Grease	EPA 1664	35.0			mg/l	lx		40.0 87.5%	(78-114)			12/10/07 10:50	
LCS (7120263-BS2)		_	_					Extracted:	12/07/07 11	:30			
Oil & Grease (non-polar)	EPA 1664	13.5		·	nıg/l	lx		20.0 67.5%	(64-132)			12/10/07 16:56	

TestAmerica Portland

Bream L Come







THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. Project Name: CWT-Subcategory B

 5555 N Channel Bldg #10
 Project Number:
 na
 Report Created:

 Portland, OR 97217
 Project Manager:
 Lian Jewell
 12/14/07 13:28

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portlan

QC Batch: 7120159	Water P	reparation M	ethod: E	PA 200/30	005									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7120159-BLK1)								Ext	racted:	12/05/07 13	5:18			
Antimony	EPA 200.8	ND		0.00100	mg/l	lx							12/08/07 03:55	
Arsenic		ND		0.00100	"	"							н	
Barium ·	н	ND		0.00100	**	n							*	
Cadmium	**	ND		0.00100	**	n							ir	
Chromium	,	ND		0.00100	"	ч							"	
Cobalt	*	ND	***	0.00100		"							"	
Copper	19	ND	***	0.00200	"	н							•	
Lead	"	ND		0.00100	и								*	
Molybdenum	н	ND		0.00500	n	*		**					li .	
Nickel	н	ND		0.00200		*		**					n	
Selenium	u u	ND	***	0.00200	u	"							II .	
Silver		ND		0.00100	"	"							n.	
Zinc	**	ND		0.00500	*	11							н	
LCS (7120159-BS1)								Ext	acted:	12/05/07 13	:18			
Antimony	EPA 200.8	0.0486		0.00200	mg/l	2x		0.0500	97.2%	(85-115)			12/08/07 04:01	
Arsenic		0.0964		0.00200	"	"	**	0.100	96,4%	"			u	
3arium -	п	0 105		0.00200	. "			,,	105%	п		•	"	
Cadmium	n .	0.0922		0.00200	"			п	92.2%				"	
Chromium		0.0928		0.00200	п	"		**	92.8%				**	
Cobalt	•	0.0969		0.00200	"	"		"	96.9%	"			it	
Copper	"	0.0932		0.00400	**	,,		"	93.2%				19	
Lead	"	0.0972	***	0.00200		"		**	97.2%	**				
Mołybdenum		0.0957		0.0100		"			95.7%				in .	
Nickel	*	0.0903		0.00400	••			"	90.3%	**			n .	
Selenium	"	0.101	***	0.00400	"	н		,,	101%	**			m .	
Silver	"	0.0977		0.00200	"	п		"	97.7%	**			n	
Zinc	n	0.0905		0.010.0	n	"		p	90.5%	**			U	
Duplicate (7120159-DUP1)				QC Source:	PQK0978-	01		Ext	acted:	12/05/07 13	:18			
Antimony	EPA 200.8	0.00138		0.00100	mg/l	łχ	0.00180				26.7%	(20)	12/08/07 04:21	
Arsenic	**	0.0116	***	0.00100	"	"	0.0116				0.172%		"	
Barium	*	0.0126		0.00100		*	0.0131				3.35%			
Cadmium	"	ND		0.00100	ш	,,	ND				NR		,,	
Chromium	*	0.00391		0.00100	**		0.00404				3.07%	*	n	
Cobalt	"	0.00943		0.00100			0.00951				0.824%		п	
Copper	"	0.0111		0.00200	н		0.00971				13.6%		и	
Lead	"	0.00869		0.00100		н	0.00800				8.23%		ij	
Molybdenum		0.0177		0.00500			0.0175				1.14%			

TestAmerica Portland

Bran L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.

Brian Cone, Industrial Services Manager





THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

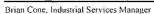
Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 7120159	Water P	reparation M	lethod: E	PA 200/30	05									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7120159-DUP1)				QC Source:	PQK0978-	01		Exti	acted:	12/05/07 13	:18			
Nickel	EPA 200.8	0.0967		0.00200	mg/l	lx	0.0985				1.87%	(20)	12/08/07 04:21	
Selenium		ND		0.00200	н		ND		••	•-	15.1%	"	10	
Silver	n	ND		0.00100	n	"	ND				NR	"	"	
Zinc	11	0.0271		0.00500	n	"	0.0273				0.551%	· "	n	
Matrix Spike (7120159-MS1)				QC Source:	PQK1114-	01		Exti	acted:	12/05/07 13	:18			
Antimony	EPA 200.8	0.0652		0.00100	mg/l	lx	0.0211	0.0500	88.3%	(70-130)			12/08/07 04:37	
Arsenic	**	0.0906		0.00100	**		0.00204	0.100	88,5%					
Barium	**	0.141		0.00100	**		0.0438		97.5%	"			III	
Cadmium	•	0.0838		0.00100	*		0.000347		83.5%	**			u .	
Chromium	**	0.0917		0.00100	*		0.00428	**	87.4%	(75-125)			u	
Cobalt	n	0.0891		00100.0	**	"	0.000603	**	88.5%	(70-130)			н	
Copper	Ħ	1.04		0.00400		2x	0.865	*	176%	(75-125)			12/11/07 18:48	M
Lead	H	0.0889		0.00100	"	lx	0.00147	**	87.4%	**			12/08/07 04:37	
Molybdenum	,,	0.0893		0.00500	n	*	0.000422	*	88.9%	(70-130)			**	
Nickel	n	0.0863		0.00200		*	0.00367	**	82.6%	*			**	
Selenium	n	0.0837	**-	0.00200		"	ND		83.7%	**				
Silver	μ	0.0858		0,00100			ND	"	85.8%	"			*	
Zinc	II	0.625		0.00500	11	n	0.532	*	92.4%	*			,	
Matrix Spike (7120159-MS2)				QC Source:	PQK1114-	02		Exu	acted:	12/05/07 13	:18			
Antimony	EPA 200.8	0.0436		0.00100	mg/l	lx	0.000346	0.0500	86.6%	(70-130)			12/08/07 04:53	
Arsenic	а	0.0858		0.00100	и		0.000678	0.100	85.1%	**			,	
Barium	"	0.103		0.00100	"		0.00577		97.1%	*			"	
Cadmium		0.0829		0.00100			ND	"	82.9%	•			*	
Chromium	"	0.0830		0.00100	и		0.000363	"	82.6%	(75-125)			"	
Cobalt	*	0.0861		0.00100			0.000997	11	85.1%	(70-130)			"	
Copper	•	0.105		0.00200			0.0228	n	82.4%	(75-125)			и	
Lead	**	0.0877		0.00100			0.000429	n	87.3%	,,			"	
Molybdenum	*	0.0903		0.00500	*	*	0.00134	ii ii	89.0%	(70-130)			н	
Nickel	**	0.0805		0.00200	**	"	0.00215	н	78.3%	n			и	
Selenium	**	0.0826		0.00200	,,	*	ND	"	82.6%	n			n	
Silver	"	0.0870		0.00100	"	**	ND	п	87.0%	n			н	
Zinc	n	0.106		0.00500	n		0.0226		83,5%	"			п	

TestAmerica Portland

Bran L Come







9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

				estAmeric	a Portiano	1							
QC Batch: 7120225	Water P	reparation M	lethod: E	PA 200/30	05								
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7120225-BLK1)								Extracted:	12/06/07 13:	39			
Tin	EPA 200.7	ND		0.0200	mg/l	lx						12/08/07 00:49	
LCS (7120225-BS1)								Extracted:	12/06/07 13:	39			
Tin	EPA 200,7	2.01		0.0200	mg/l	lx		2,00 101%	(85-115)			12/08/07 00:55	
Duplicate (7120225-DUP1)				QC Source:	PQK1066-	-03		Extracted:	12/06/07 13:	39			
Tin	EPA 200.7	ND		0.0200	mg/l	lx	ND			NR	(20)	12/08/07 01:21	
Matrix Spike (7120225-MS1)				QC Source:	PQL0014-	01		Extracted:	12/06/07 13:	39			
Tin	EPA 200.7	1.95		0.0200	mg/l	lx	ND	2.00 97.3%	(75-125)			12/08/07 01:34	

TestAmerica Portland

Bream L Come





PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. **CWT-Subcategory B** Project Name:

5555 N Channel Bldg #10 Project Number: Report Created: Portland, OR 97217 Project Manager: Lian Jewell 12/14/07 13:28

	Total N	Mercury per		hod 245.1			Quality	Control I	Results		,		
QC Batch: 7111091	Water I	Preparation N	lethod: E	PA 245.1									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike ⁶ Amt R	(Limi	ts) %	(Limit	s) Analyzed	Notes
Blank (7111091-BLK1)								Extracte	d: 11/29/0	7 10:54			
Mercury	EPA 245.1	ND ,		0.000200	mg/l	lx						11/29/07 15:21	
LCS (7111091-BS1)								Extracte	d: 11/29/0	7 10;54			
Mercury	EPA 245.1	0.00493		0.000200	mg/l	lx	~~	0.00500 98.	6% (85-1	15)		11/29/07 15:23	
LCS Dup (7111091-BSD1)								Extracte	d: 11/29/0	7 10:54			
Mercury	EPA 245.1	0.00524		0.000200	mg/l	lχ		0.00500 10	5% (85-1	15) 6.06	% (20)	11/29/07 15:27	
Duplicate (7111091-DUP1)				QC Source:	PQK0978-	01		Extracte	d: 11/29/0	7 10:54			
Mercury	EPA 245.1	ND		0.00200	mg/l	lx	ND			NR	(20)	11/29/07 15:31	RLI
Matrix Spike (7111091-MS1)				QC Source:	PQK0978-	01		Extracte	d: 11/29/0	7 10:54			
Mercury	EPA 245.1	0.0493		0.00200	mg/l	lx	ND	0.0500 98.	7% (75-1	25)		11/29/07 15:33	RLI
Matrix Spike Dup (7111091-MS	D1)			QC Source:	PQK0978-	01		Extracte	d: 11/29/0	7 10:54			
Mercury	EPA 245.1	0.0493		0.00200	mg/l	lx	ND	0.0500 98.	5% (75-1	25) 0.150	% (20)	11/29/07 15:37	RLI

TestAmerica Portland

Bean L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10

Project Number:

na

Report Created:

Portland, OR 97217

Project Manager: Lian Jewell

12/14/07 13:28

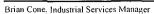
Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

QC Bate	h: 7111118	water	Preparation	ivietnoa:	EFA SUSUB									
analyte		Method	Result	MDL	MRL	Units	Dil	Source Result	Spike Amt	%. REC	(Limits) * [%] RP) (Lim	its) Analyzed	No
Blank (71111	18-BLK1)								Extr	acted:	11/29/07 19:04		<u> </u>	
Acrylonitrile		EPA 624	ND		0.00600	mg/l	lx						11/30/07 01:14	
Benzene		"	ND		0 00100	"	"						"	
3romodichlorometh:	ane	,,	ND		0.00100		н			••			u .	
Bromoform		н	ND		0.00100	"	"							
romomethane		"	ND		0.00500				**				н	
Carbon tetrachloride		п	ND		0.00100	"								
Chlorobenzene		"	ND		0.00100	**	**						u	
Chloroethane		u	ND		0.00500	**	,,		*-				u:	
Chloroform		*	ND		0.00100	**	,,			••			н	
Chloromethane		**	ND		0.00500	"	"			**				
Dibromochlorometh	ane	"	ND		0 00100	,	D						**	
,2-Dichlorobenzene	:	п	ND		0.00100		"						»	
,3-Dichlorobenzene	•	и	ND		0.00100	п							,,	
,4-Dichlorobenzene	:	н	ND		0.00100		**						"	
, I-Dichloroethane		**	ND		0.00100	и	**						n	
,2-Dichloroethane		**	ND		0.00100		17							
,1-Dichloroethene		10	ND		0.00100	n	**						,,	
rans-1,2-Dichloroet	hene	"	ND	***	0.00100	,	"						" .	
,2-Dichloropropane	2	n	ND		0.00100	"	"							
is-1,3-Dichloroprop		P	ND		0.00100								**	
rans-1,3-Dichloropr		R	ND		0.00100	и .							**	
Ethylbenzene	•		ND		0.00100	"	"						er e	
Methylene chloride		*	ND		0.00500	**							**	
1,1,2,2-Tetrachloroe	thane	,,	ND		0.00100	**	н						"	
Tetrachloroethene		н	ND		0,00100	*							n	
Totuene		1)	ND		0,00100	"	**						n	
,1,1-Trichloroethan	e		ND		0.00100	n							п	
,1,2-Trichloroethan		ji .	ND		0.00100	D	"						п	
richloroethene	· -	,,	ND		0.00100	ii						- 	**	
richlorofluorometh	ane	,,	ND		0.00100	**							**	
Vinyl chloride	w.v	**	ND		0.00100	"	"						*	
Surrogate(s):	4-BFB			93.4%		nits: 75-120%	"						11/30:07 01:1-	
	1.2-DCA-d4			104%	1300	77-129%	"						"	
	Dibromofluoromethane			98.3%		80-121%	,,						"	
	Toluene-d8			101%		80-120%							"	

TestAmerica Portland

Becom L Come







9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

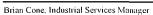
Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

QC Batch:	7111118	Water	Preparation	Method: E	PA 5030B										
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7111118-BS	51)								Exti	acted:	11/29/07 19	:04			
Acrylonitrile		EPA 624	0.0641		0.00600	mg/l	lx		0.0600	107%	(70-142)			11/29/07 23:51	
Benzene		**	0.0194		0.00100	"	"		0.0200	97.2%	(80-120)			ur	
Bromodichloromethane		"	0.0230		0.00100	u	*		**	115%	(80-141)			*	
Bromoform		"	0.0196		0.00100	11	"		,	98.1%	(73-151)			**	
Bromomethane		"	0.0208		0.00500		"		"	104%	(52-168)			**	
Carbon tetrachloride		,	0.0242		0.00100	**	"	••	**	121%	(80-125)			er .	
Chlorobenzene		"	0.0200		0.00100	"	"	••	"	100%	(80-120)			н	
Chloroethane		"	0.0187	*	0.00500	"	"		"	93.3%	(80-123)			**	
Chloroform			0.0214		0.00100		"	••	n	107%	(80-121)				
Chloromethane		,,	0.0196		0.00500	"	"		,	97.8%	(42-150)			*	
Dibromochloromethane		n .	0.0216		0.00100	**	"		"	108%	(80-129)				
,2-Dichlorobenzene			0.0206		0.00100	,,	17		"	103%	(80-120)			"	
,3-Dichlorobenzene		u u	0.0200		0.00100		"		"	100%	n				
,4-Dichlorobenzene		"	0.0200		0.00100	**	,,		"	99.9%					
, I-Dichloroethane		*	0.0205		0.00100	*			"	102%	u			н	
,2-Dichloroethane		**	0.0213		0.00100	"				107%	(75-135)			**	
, I-Dichloroethene		**	0.0210		0.00100	"				105%	(80-120)			"	
rans-1,2-Dichloroethene		*	0.0199		0.00100	"				99.6%				"	
,2-Dichloropropane		**	0.0204	***	0.00100	"	"			102%					
is-1,3-Dichloropropene		4	0.0210		0.00100	н	11		,	105%	(80-126)			#	
ans-1,3-Dichloropropend	e	**	0.0214		0.00100	"		*-		107%	(78-137)			*	
thylbenzene		re .	0.0200		0.00100.0	и			,	99.8%	(80-130)			**	
lethylene chloride		o	0.0203		0.00500	н	"			101%	(80-120)			"	
,1,2,2-Tetrachloroethane		47	0.0204		0.00100	"	"		10	102%	(75-139)			*	
etrachloroethene		**	0.0214		0.00100	n	п			107%	(80-120)		•-		
oluene			0.0192		0.00100	n				95.8%	(80-125)			**	
,1,1-Trichloroethane		**	0.0234		0.00100	n				117%	(80-124)			**	
,1,2-Trichloroethane		11	0.0216		0.00100	п				108%	(80-125)			**	
richloroethene		,,	0.0214		0.00100	n	ш			107%	(80-124)				
richlorofluoromethane			0.0225		0.00100	п				112%	(80-129)				
/inyl chloride		**	0.0225		0.00100					103%	(80-128)			,,	
Kylenes (total)		,,	0.0602		0.00200				0.0600		(80-130)			*	
Surrogate(s): 4-B	rt-R		Recovery:	98.9%		nits: 75-120%	"				(55.50)			11/29/07 23:5	,
0 17	-DCA-d4		Recovery:	106%	1.111	77-129%	,,							"	•
	promofluoromethane			101%		80-121%	"							"	
	nene-d8			99.5%		80-120%	"							"	

TestAmerica Portland

Brown L Come







9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

QC Bate	h: 7111118	Water	Preparation	Method: E	PA 5030B	.						·			
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (71	11118-BSD1)								Extr	acted:	11/29/07 19	:04			
Acrylonitrile		EPA 624	0.0694		0.00600	mg/l	lx		0.0600	116%	(70-142)	7.95%	(25)	11/30/07 00:19	
Benzene		n	0.0203		0.00100	"	n		0.0200	102%	(80-120)	4.48%	. "	**	
Bromodichlorometh	ane	"	0.0237		0.00100	"	"		n	118%	(80-141)	3,22%	. "	**	
Bromoform		n	0.0220	•••	0.00100	11	"		,,	110%	(73-151)	11.6%	. "	а	
Bromomethane			0.0219		0.00500	n	n		**	109%	(52-168)	4.83%	. "	u	
Carbon tetrachloride	,		0.0246	•••	0.00100.0	*				123%	(80-125)	2.01%	. "	u	
Chłorobenzene		u u	0.0206		0.00100	"	"		*	103%	(80-120)	3.05%			
Chloroethane		n	0.0193		0.00500	**	"		**	96.3%	(80-123)	3.16%			
Chloroform		n	0.0224		0.00100		"		н	112%	(80-121)	4.93%	"	"	
Chloromethane		"	0.0205		0.00500	"	"			103%	(42-150)	4.79%	. "		
Dibromochlorometh	ane	"	0.0233		0.00100	**			*	116%	(80-129)	7.44%		,	
1,2-Dichlorobenzen	e	**	0.0220		0.00100	e	*			110%	(80-120)	6.85%			
1,3-Dichlorobenzen	÷		0.0212		0.00100	**	*			106%	**	5.39%			
1,4-Dichlorobenzen	•	*	0.0209		0.00100	*	"			104%	*	4.50%			
I,I-Dichloroethane			0.0217		0,00100	"			н	108%	*	5.69%			
1,2-Dichloroethane			0.0227		. 0.00100	**	**			113%	(75-135)	6.14%			
1,1-Dichloroethene			0.0215		0.00100		,,			108%	(80-120)	2.73%	н		
trans-1,2-Dichloroet	hene	4	0.0215		0.00100	"				107%		7.49%	ь	**	
1,2-Dichloropropane	•	*	0.0213		0.00100	"				107%		4.56%	D.	**	
cis-1,3-Dichloroprop		**	0.0226		0.00100				b	113%	(80-126)	7.42%		a a	
trans-1,3-Dichloropi			0.0232		0.00100					116%	(78-137)	8.03%		и	
Ethylbenzene	•	**	0.0209		0.00100	п	**			105%	(80-130)	4.70%		u	
Methylene chloride			0.0211		0.00500	п	**		n	105%	(80-120)	4.01%		u	
1,1,2,2-Tetrachloroe	thane		0.0220		0.00100					110%	(75-139)	7.68%			
Tetrachloroethene			0.0224		0.00100	n			п	112%	(80-120)	4.56%		ii .	
Toluene			0.0204		0.00100	"			D	102%	(80-125)	6.52%		u	
I, I, I-Trichloroethar	e		0.0247		0.00100	n			,	123%	(80-124)	5.41%			
1,1,2-Trichloroethar			0.0221		0.00100				,	111%	(80-125)	2,47%			
Trichloroethene	•		0.0225		0.00100					112%	(80-124)	4.92%		,,	
Trichlorofluorometh	ane		0.0229		0.00100	,,			,,	114%	(80-129)	1.76%		n	
Vinyl chloride			0,0211		00100.0	,,			,,	106%	(80-128)	2.45%		u	
Xylenes (total)		н	0.0627		0.00200	n	ш		0.0600	104%	(80-130)	4.04%			
Surrogate(s):	4-BFB		Recovery:	98.4%	_	nits: 75-120%	"							11/30/07 00:19	,
-a17	1,2-DCA-d4		y'	105%	3"	77-129%	"							"	
	Dibromofhoromethane			103%		80-121%	"							n	
	Toluene-d8			98.6%		80-120%	"							,,	

TestAmerica Portland ,

Bream L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217

QC Batch: 7111167

Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

Water Preparation Method: EPA 5030B

	1000													
Analyte N	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes

Blank (71111)	67-BLK1)							Exti	racted:	11/30/07 14	1:18	
Acrolein		EPA 624	ND		0.0100	mg/l	lx	 				 11/30/07 17:03
Surrogate(s):	4-BFB		Recovery:	100%	L	mits: 75-120	% "					 11/30:07 17:03
	1.2-DCA-d4			99.5%		77-129	% "					"
	Dibromofluoromethane			99.3%		80-121	% "					"
	Toluene-d8			97.0%		80-126	% "					н

LCS (7111167	'-BS1)								Extr	acted:	11/30/07 14:	18		MNKI
Acrolein		EPA 624	0.0993		0.0100 1	mg/l	lx	••	0.0400	248%	(6-115)		 11/30/07 15:36	L
Surrogate(s):	4-BFB		Recovery:	99.3%	Limits:	: 75-120%	"						11/30:07 15:36	
	1.2-DCA-d4			93.8%		77-129%	"						"	
	Dibromofluoromethane			95.2%		80-121%	"						"	
	Toluene-d8			98.9%		80-120%	"						"	

LCS Dup (711	LCS Dup (7111167-BSD1)											Extracted: 11/30/07 14:18						
Acrolein		EPA 624	0.110	***	0.0100	mg/l	lx		0.0400	274%	(6-115)	10.0% (25)	11/30/07 16:09	L				
Surrogate(s):	4-BFB		Recovery:	100%	Lin	nits: 75-120%	"						11/30/07 16:09					
	1.2-DCA-d4			99.3%		77-129%	6 "						"					
	Dibromofluoromethane			99.0%		80-121%	6 "						"					
	Tolnene-d8			99.2%		80-120%	ć "						"					

TestAmerica Portland

Bream L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 7120034	Water	Preparation	Method: 35	520B Liq-	Liq									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	%. REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7120034-BLK1)								Exti	acted:	12/03/07 11	:56			
4-Chloro-3-methylphenol	EPA 625	ND	•••	0.00500	mg/l	lx							12/05/07 17:41	
2-Chlorophenol	D.	ND		0.00500	"	,						••	н	
2,4-Dichlorophenol	n	ND		0.00500	**	*							н	
2,4-Dimethylphenol	n	ND		0.0100	"	**							н	
4,6-Dinitro-2-methylphenol		ND		0.0100	*	**							**	
2,4-Dinitrophenol	n	ND		0.0250	"	**							*	
2,4-Dinitrotoluene	n	ND		0.00500	,,	**							"	
Bis(2-ethylhexyl)phthalate	n .	ND		0.0100	"	•							"	
Fluoranthene	D	ND		0.00500	"	*							"	
Nitrobenzene	ıı .	ND		0.00500	"	*							n	
2-Nitrophenol	u u	ND	***	0.00500	,,	,,							*	
4-Nitrophenol	u u	ND	***	0.0250	•	•							*	
Pentachlorophenol	D	ND		0.0100	*	**							"	
Phenol		ND	***	0.00500	**	••							,	
2,4,6-Trichlorophenol		ND	•••	0.00500	**									
2,4,5-Trichlorophenol	n .	ND		0.00500	н	11							"	
2,6-Dichlorophenol	i)	ND		0.0250	"	**				_			"	
2-Methylphenol	n	ND		0.0100	**	•							*	
3-,4-Methylphenol	"	ND		0.00500	**				***					
Tetrachlorophenols (2)	"	ND		0.0250	н	"								
Carbazole	n	ND		0.00500	"	**								
n-Decane		ND		0.0100		**							н	C, A-0
4-Chlorophenol	"	ND	•••	0.00500										A-0
n-Octadecane	"	ND		0.0100	u	"								A-0
Surrogate(s): 2-Fluorobiphenyl		Recovery:	81.6%	Lin	iits:- 22-120%	,,							12/05/07 17:41	,
2-Fluorophenol		•	78.3%	-	5-120%	"							н	
Nitrobenzene-d5			91.8%		26-127%	"							н	
Phenol-d6			89.4%		4-121%	"							н	
p-Terphenyl-d14			96.7%		37-130%	"							"	
2.4,6-Tribromophene	ol .		92.5%		21-129%	"							,,	

TestAmerica Portland

Beam L Come





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 7120034		Preparation M												
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	Analyzed	Notes
LCS (7120034-BS1)								Exti	acted:	12/03/07 11	:56		•••	
Acenaphthene	EPA 625	0.0463		0.00500	mg/l	lx		0.0500	92.6%	(47-145)			12/05/07 16:20	
Acenaphthylene	"	0.0442		0.00500	•	"		•	88.3%	(33-145)			"	
Anthracene	"	0.0460		0.00500	**	"		17	92.0%	(27-133)			"	
Benzidine	"	ND		0.0600	"	*		0.0400	NR	(1-150)			ш	L
Benzo (a) anthracene	n	0.0462		0.00500	**	"		0.0500	92.3%	(33-143)			п	
Benzo (a) pyrene	"	0.0399		0.00500	*	н		16	79.9%	(17-163)			U	
Benzo (b) fluoranthene	"	0.0407		0.00500	"	**		**	81.5%	(24-159)			п	
Benzo (ghi) perylene	н	0.0504		0.00500	"	,		"	101%	(1-219)			u	
Benzo (k) fluoranthene		0.0423		0.00500	**	#		**	84.7%	(11-162)			II .	
4-Bromophenyl phenyl ether		0.0491		0.00500	**	*		*	98.2%	(53-127)			Ü	
Butyl benzyl phthalate	н	0.0462		0.00500	"	*		"	92.4%	(1-152)			n	
4-Chloro-3-methylphenol	n	0.0476		0.00500	*	*		*,	95.3%	(22-147)			*	
Bis(2-chloroethoxy)methane	»	0.0481		0.0100	"	*		**	96.2%	(33-184)			n	
Bis(2-chloroethyl)ether	**	0.0474		0.00500	n	,,		**	94.7%	(12-158)			n	
Bis(2-chloroisopropyl)ether		0.0451		0.0100	*	-		77	90.1%	(36-166)			"	
2-Chloronaphthalene	U	0,0493		0,00500	"	"		n	98.7%	(60-118)			n	
2-Chlorophenol		0.0481		0.00500		"		*	96.3%	(23-134)			"	
4-Chlorophenyl phenyl ether	,	0.0491		0.00500	,,	,,		*	98.3%	(25-158)			*	
Chrysene	п	0.0469		0.00500		"		9	93.8%	(17-168)	**		"	
Di-n-butyl phthalate	п	0.0470		0.00500	"	"		"	93.9%	(1-118)			"	
Di-n-octyl phthalate	n	0.0426		0.00500	11	*		*	85.3%	(4-146)			"	
Dibenzo (a,h) anthracene	n	0.0470		0.00500	ii .	**		"	94.0%	(1-227)			"	
1,2-Dichlorobenzene		0.0480		0.00500	"	"		"	96.0%	(6-129)			"	
1,2 Diphenythydrazine (as Azobenzene)	n	0.0504		0.00500	b	•		**	101%	(1-150)			n	
1,3-Dichlorobenzene	п	0.0449		0.00500	"	**		*	89.8%	(1-172)			"	
1,4-Dichlorobenzene		0.0466		0.00500	U	*		"	93.2%	(8-124)			"	
3,3'-Dichlorobenzidine	п	0.0182		0.00500		*		0.0400	45.4%	(1-262)			*	
2,4-Dichlorophenol	п	0.0467		0.00500		*		0.0500	93.3%	(39-135)			*	
Diethyl phthalate	и	0.0476		0.00500	u	"		11	95.3%	(1-114)	***		"	
2,4-Dimethylphenol	*	0.0327		0.0100	·	*		n	65.4%	(32-119)			"	
Dimethyl phthalate	п	0.0486		0.00500	n	*		"	97.2%	(1-112)			"	
4,6-Dinitro-2-methylphenol	и	0,0514		0.0100	"	"		"	103%	(1-181)			n	
2,4-Dinitrophenol	н	0.0462		0.0250	D.	"		9	92.5%	(1-191)			n	
2,4-Dinitrotoluene	II .	0.0484		0.00500	"	"		n	96.8%	(39-139)			н	
2,6-Dinitrotoluene	U	0.0510		0.00500		"		h	102%	(50-158)			"	
Bis(2-ethylhexyl)phthalate	n.	0.0486	***	0.0100	"	"		"	97.1%	(8-158)				
Fluoranthene	,,	0.0439		0.00500				н	87.9%	(26-137)			•	
Fluorene		0.0485		0.00500	u	"		n	97.1%	(59-121)			н	
Hexachlorobenzene	н	0.0503		0.00500	u	,,			101%	(1-152)			н	

TestAmerica Portland

Beam L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full.

without the written approval of the laboratory.

Brian Cone, Industrial Services Manager





9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica Portland

QC Bate	h: 7120034	Water	Preparation	Method: 3	520B Liq-	Liq									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	" REC	(Limits)	% RPD	(Limits)	Analyzed	Note
LCS (712003	4-BS1)			·- ·- <u>-</u>					Ext	racted:	12/03/07 11	:56			
Hexachlorobutadien	e	EPA 625	0,0445		0.0100	mg/l	lx		0.0500	89.0%	(5-116)			12/05/07 16:20	
Hexachlorocycloper	itadiene	n	0.0251	•••	0.0100	"	"	**	"	50.3%	(1-150)			"	
Hexachloroethane		"	0.0464		0.0100		"		"	92.7%	(5-113)			ч	
Indeno (1,2,3-cd) py	rene	"	0.0459		0.00500	*	"		ıı	91.8%	(1-171)			и	
Isophorone		n .	0.0444	•••	0.00500	"	"	••	"	88.9%	(21-196)			"	
Naphthalene			0.0450		0.00500	**	"		"	90.1%	(21-133)			u	
Nitrobenzene		D.	0.0458		0.00500	"				91.6%	(35-180)			u	
2-Nitrophenol		*	0.0464	•••	0.00500	"	"		"	92.8%	(29-182)			II .	
4-Nitrophenol		"	0.0473		0.0250	**	"		"	94.6%	(1-132)			n .	
N-Nitrosodimethyla	mine	#	0.0419		0.00500	"	"		"	83.7%	(1-150)		•	н	
N-Nitrosodi-n-propy	lamine	#	0.0466		0.0100	*				93.1%	(1-230)			n .	
N-Nitrosodiphenyla	mine		0.0514		0.00500	*			н	103%	(1-150)			"	
Pentachlorophenol			0.0518		0.0100	11	"		"	104%	(14-176)			n	
Phenanthrene		**	0.0460		0.00500	n			"	92.1%	(54-120)			n	
Phenol		*	0.0458		0.00500	10	"		"	91.5%	(5-112)			н	
Pyrene		#	0.0452		0.00500	"	"		"	90.3%	(52-122)			n	
1,2,4-Trichlorobenz	ene	"	0.0477		0.00500	,	"		"	95.4%	(11-142)			"	
2,4,6-Trichlorophen	ol	"	0.0521		0.00500	n	"		"	104%	(37-144)				
Surrogate(s):	2-Fhorobiphenyl	-	Recovery:	88.9%	Lin	nits: 22-120%	"							12/05/07 16:20	
	2-Fluorophenol			81.3%		5-120%	"							"	
	Nitrohenzene-d5			93.3%		26-127%	"								
	Phenol-d6			90.3%		4-121%	"							,,	
	p-Terphenyl-d14 2,4,6-Tribromophenol			99.3% 102%		37-130% 21-129%	,,							"	
	2,7,0 (1111)			10270		21-12770									
Matrix Spike	(7120034-MS1)				QC Source:	PQK1065-05			Exti	racted:	12/03/07 11	:56			
Acenaphthene	•	EPA 625	0.0424		0.00481	mg/l	lx	ND		88.2%	(45-145)			12/05/07 19:51	
Acenaphthylene	•	"	0.0380		0.00481	"	"	ND	"	78.9%	(20-150)			н	
Anthracene		n	0.0456	***	0.00481		"	ND	"	94.8%	"		**	n	
Benzidine		"	ND		0.0577	n		ND	0.0385	NR	(1-150)			*	
Benzo (a) anthracen	e	п	0.0453		0.00481	n	"	ND	0.0481	94.2%	(20-150)			•	
Benzo (a) pyrene		н	0.0344		0.00481	"	"	ND	"	71.6%	(10-175)			n	
Benzo (b) fluoranth	ene	н	0.0339		0.00481	n		ND	"	70.6%	н			"	
Benzo (ghi) perylen	e	п	0.0468		0.00481	Ü		ND	•	97.3%	(1-225)		•-	"	
Benzo (k) fluoranth	ene	н	0.0359	**-	0.00481	п	"	ND	**	74.7%	(1-175)			*	
4-Bromophenyl phe	nyl ether	п	0.0464		0.00481	n	"	ND	,,	96.5%	(20-150)			"	
Butyl benzyl phthal	ate	n .	0.0461		0.00481	и	**	ND	*	95.9%	(1-175)			"	
4-Chloro-3-methylp	henol	п	0.0448		0.00481	"	"	ND		93.2%	(10-175)			*	
Bis(2-chloroethoxy)	methane	u	0.0427		0.00962	u .	"	ND	*	88.8%	(10-200)			n	
Bis(2-chloroethyl)er	her	**	0.0422		0.00481	н	.,	ND		87.8%	(1-175)			**	

TestAmerica Portland

The results in this report upply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the verticen approval of the laboratory.

Brian Cone, Industrial Services Manager





PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created:

12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 7120034	Water I	Preparation Me	tnoa: 3:	SZUB LIQ-I	∟ıq									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	%. REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7120034-MS1)				QC Source:	PQK1065-0	5		Ext	acted:	12/03/07 11	:56			
Bis(2-chloroisopropyl)ether	EPA 625	0.0407		0.00962	mg/l	lx	ND	0.0481	84.7%	(10-175)			12/05/07 19:51	
2-Chloronaphthalene	n	0.0438		0.00481	п	"	ND	"	91.1%	(20-150)		**	"	
2-Chlorophenol	,,	0.0407		0.00481		**	ND	**	84.6%	(10-150)			**	
4-Chlorophenyl phenyl ether	"	0.0443		0.00481		"	ND	"	92.2%	(10-175)			n	
Chrysene		0.0458		0.00481	II .	"	ND	"	95.3%	(5-175)			n	
Di-n-butyl phthalate	и	0.0450	***	0.00481	н	10	ND	"	93.5%	(1-150)			н	
Di-n-octyl phthalate	n	0.0356		0.00481	п	**	ND	"	74.1%	(1-175)				
Dibenzo (a,h) anthracene	n	0.0463		0.00481	ш	10	ND	,,	96.2%	(1-250)			n	
1,2 Diphenylhydrazine (as Azobenzene)	п	0.0439		0.00481	н	n	ND	"	91.3%	(1-175)			н	
1,2-Dichtorobenzene	н	0.0417		0.00481	н	11	ND	"	86.7%	(1-150)			*	
1,3-Dichlorobenzene	п	0.0395		0.00481	u .	**	ND	19	82.2%	(1-200)			**	
1,4-Dichlorobenzene	n .	0.0387		0.00481		"	ND	,,	80.4%	(1-150)			"	
3,3'-Dichlorobenzidine		ND		0.00481	и	"	ND	0.0385	NR	(1-275)			**	М
-2.4-Dichlorophenol		0.0417		0.00481	н		ND	0.0481	86.8%	(10-150)			"	
Diethyl phthalate	п	0.0438		0.00481	п	**	ND	**	91.1%	(1-150)			ш	
2,4-Dimethylphenol	n	0:0452		0.00962	ч	"	ND .	"	94.0%	(5-150)			U	
Dimethyl phthalate	u	0.0441		0.00481	u	"	ND	**	91.8%	(1-150)			"	
4,6-Dinitro-2-methylphenol	n.	0.0482		0.00962	II .	*	ND	,	100%	(1-200)			4	
2,4-Dinitrophenol	n	0.0465		0.0240	"		ND		96.8%	*				
2,4-Dinitrotoluene	п	0.0430		0.00481	и	"	ND	,,	89.4%	(20-150)			и	
2,6-Dinitrotoluene	u	0.0463		0.00481	и	*	ND	"	96.3%	(20-175)				
Bis(2-ethylhexyl)phthalate	n .	0.0569		0.00962		"	ND	,,	118%	(1-175)				
Fluoranthene	n	0.0429		0.00481	ш	**	ND	*	89.2%	(10-150)			п	
Fluorene		0.0431		0.00481	u .	*	ND	**	89.6%	(20-150)			a	
Hexachlorobenzene	ıı .	0.0463		0.00481		н	ND	н	96.3%	(1-175)			и	
Hexachlorobutadiene	n.	0.0401		0.00962		**	ND	н	83.5%	(1-150)			ii .	
Hexachlorocyclopentadiene	п	0.0334		0.00962	D	*	ND	**	69.4%	(1-175)			u	
Hexachloroethane	"	0.0403		0.00962	u	*	ND	"	83.8%	(1-150)			u	
Indeno (1,2,3-cd) pyrene	п	0.0446		0.00481	и	**	ND	,,	92.7%	(1-200)			u	
Isophorone	п	0.0404		0.00481			ND	*	84.1%	(10-200)			ni .	
Naphthalene	п	0.0394		0.00481			ND	*	82.0%	(10-150)			и	
Nitrobenzene	п	0.0385		0.00481		,,	ND	"	80.0%	(10-200)			o	
2-Nitrophenol	п	0.0406		0.00481			ND		84.4%				,,	
4-Nitrophenol	n	0.0399		0.0240	u	**	ND	"	83.1%	(1-150)				
N-Nitrosodimethylamine	п	0.0322		0.00481	n .	**	ND	**	66.9%				и	
N-Nitrosodi-n-propylamine	n	0.0413		0.00962	н	,,	ND	"	85.9%	(1-250)			и	
N-Nitrosodiphenylamine	u	0.0530		0.00481	**	н	ND	н	110%	(1-175)				
Pentachlorophenol	"	0.0498		0.00962		*	ND		104%	(5-200)			tr.	
Phenanthrene		0.0451		0.00481			ND		93.8%	(20-150)				

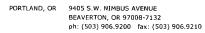
TestAmerica Portland

Bran L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory:

Brian Cone, Industrial Services Manager







THE LEADER IN ENVIRONMENTAL TESTING

Cascade General, Inc. CWT-Subcategory B Project Name:

Report Created: 5555 N Channel Bldg #10 Project Number: Portland, OR 97217 Project Manager: Lian Jewell 12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

				======	estAmeric	a Portland	 ;							· · · · · · · · · · · · · · · · · · ·	
QC Bate	h: 7120034	Water	Preparation N	lethod: 35	520B Liq-l	Liq									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	%. REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike	(7120034-MS1)			_	QC Source:	PQK1065-0	5		Exti	acted:	12/03/07 11	:56			
Phenol		EPA 625	0.0365		0.00481	mg/l	lх	ND	0.0481	75.9%	(1-150)			12/05/07 19:51	
Pyrene		u	0.0455		0.00481	н		ND		94.7%	(20-150)				
1,2,4-Trichlorobenz	ene		0.0402		0.00481			ND		83.6%	(1-150)			u	
2,4,6-Trichlorophen	ol	u	0.0463		0.00481	**		ND	"	96.4%	(20-175)			и	
Surrogate(s):	2-Fhorobiphenyl		Recovery: 8	3.8%	Lin	nits: 22-120%	п					*****	-,-	12/05/07 19:51	
	2-Fhorophenol		6	1.0%		5-120%	. "							"	
	Nitrobenzene-d5		7	9.5%		26-127%								"	
	Phenol-d6			2.3%		4-121%								"	
	p-Terphenyl-d14			9.7%		37-130%								"	
	2,4,6-Tribromophenol		8	0.3%		21-129%	"							"	
Matrix Spike I	Oup (7120034-MS	5 D 1)		_	QC Source:	PQK1065-0	5		Exti	acted:	12/03/07 11	:56			
Acenaphthene		EPA 625	0.0430		0.00481	mg/l	lx	ND	0.0481	89.4%	(45-145)	1.35%	6 (50)	2/05/07 20:33	
Acenaphthylene		n	0.0386		0.00481	"		ND		80.2%	(20-150)	1.58%	6 "	*	
Anthracene		п	0.0442		0.00481	"	"	ND		92.0%	*	2.91%	ó "	**	
Benzidine		п	ND		0.0577	"		ND	0.0385	NR	(1-150)		"	**	
Benzo (a) anthracen	e	n	0.0433		0.00481	"	"	ND	0.0481	90.0%	(20-150)	4.60%	ó "		
Benzo (a) pyrene		u	0.0347		0.00481	"		ND		72.2%	(10-175)	0.8909	% "	**	
Benzo (b) fluoranthe	ene	n	0.0335		0.00481	н	10	ND		69.6%	0	1.34%	6 " ¬		
Benzo (ghi) perylen	e	,,	0.0466		0.00481	"	,,	ND		96.9%	(1-225)	0,4325	% "	**	
Benzo (k) fluoranthe		31	0.0365		0.00481	"		ND		75.9%	(1-175)	1,579	6 "	**	
4-Bromophenyl phe		,,	0.0458		0.00481	н	"	ND	n	95.3%	(20-150)	1.27%	6 "		
Butyl benzyl phthala		n .	0.0464		0.00481	**		ND		96.4%	(1-175)	0.5209			
4-Chloro-3-methylp		"	0.0430		0.00481	"		ND		89.5%	(10-175)	4.01%		ч	
Bis(2-chloroethoxy)		,,	0.0390		0.00962	**	**	ND	н	81.0%	(10-200)	9.16%		н	
Bis(2-chloroethyl)et		,,	0.0373		0.00481	*	**	ND	11	77.5%	(1-175)	12.49			
Bis(2-chloroisoprop		**	0.0356		0.00962	,		ND		74.1%	(10-175)	13.29		п	
2-Chloronaphthalen		,,	0.0434		0.00481	#	**	ND	,,	90.3%	(20-150)	0.8609		n	
2-Chlorophenol	•	"	0.0381		0.00481	**	,,	ND	,,	79.2%	(10-150)	6.69%			
	and ask an	,,			0.00481	,,	**	ND	,,	92.8%	, ,	0.6279			
4-Chlorophenyl phe	nyi einer	,,	0.0446 0.0448		0.00481		,,	ND	,	93.2%	(10-175) (5-175)	2,27%			
Chrysene															
Di-n-butyl phthalate			0.0440		0.00481			ND	,	91.5%	(1-150)	2.16%			
Di-n-octyl phthalate			0.0353		0.00481			ND		73,4%	(1-175)	0.9499			
Dibenzo (a,h) anthra		"	0.0453		0.00481		,	ND	,,	94.2%	(1-250)	2.16%			
1,2 Diphenylhydrazi		*	0.0432		0.00481	,	*	ND	,,	89.9%	(1-175)	1.59%		п	
1,2-Dichlorobenzen	е	*	0.0382		0.00481	11	**	ND		79.4%	(1-150)	8.79%		н	
1,3-Dichlorobenzen	е	**	0.0357		0.00481	"	"	ND		74.3%	(1-200)	10.1%	ó "	"	
1,4-Dichlorobenzene	e	*	0.0361		0.00481	*	**	ND	"	75.1%	(1-150)	6.81%	, " 0	н	
3,3'-Dichlorobenzid	ine	*	ND		0.00481	*	"	ND	0.0385	NR	(1-275)		"	"	N
2,4-Dichlorophenol	•	*	0.0420		0.00481	**	**	ND	0.0481	87.4%	(10-150)	0.6439	% "	**	

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

Bream L Come





PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217 Project Number: Project Manager:

na Lian Jewell Report Created: 12/14/07 13:28

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica Portland

QC Batel	h: 7120034	Water	Preparation	Method: 35	520B Liq-	Liq									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Note
Matrix Spike D	oup (7120034-MS	D1)			QC Source	PQK1065-05			Exti	acted:	12/03/07 11	:56			
Diethyl phthalate		EPA 625	0.0439		0.00481	mg/l	lx	ND	0.0481	91.2%	(1-150)	0.1329	6 (50)	12/05/07 20:33	
2,4-Dimethylphenol		"	0.0442		0.00962	n	*	NĐ		91.9%	(5-150)	2.26%	, "	"	
Dimethyl phthalate		n-	0.0450		0.00481	n	,	ND	"	93.5%	(1-150)	1.90%	, "	"	
4,6-Dinitro-2-methyl	lphenol	н	0.0470	***	0.00962	**	*	ND		97.8%	(1-200)	2.36%	, "	"	
2,4-Dinitrophenol		"	0.0445		0.0240	п	**	ND	**	92.7%	**	4.33%	. "	"	
2,4-Dinitrotoluene		D.	0.0429		0.00481	н	"	ND	"	89.2%	(20-150)	0.2249	6 "	"	
2,6-Dinitrotoluene		D.	0.0467		0.00481	"	"	ND	"	97.2%	(20-175)	0.8689	6 "	"	
Bis(2-ethylhexyl)pht	halate	n	0.0542		0.00962	,,	н	ND	н	113%	(1-175)	4.95%	, "	*	
Fluoranthene		n	0.0407		0.00481	н	**	ND	"	84.7%	(10-150)	5.22%	, "	**	
Fluorene		n	0.0436		0.00481	,	**	ND		90.6%	(20-150)	1.11%	, "	**	
Hexachlorobenzene			0.0446		0.00481		"	ND	*	92.9%	(1-175)	3.68%	, "	*	
Hexachlorobutadiene	e	n	0.0341		0.00962		"	ND	"	70.9%	(1-150)	16.3%	. "	**	
Hexachlorocyclopen	tadiene	"	0.0291		0.00962		"	ND		60.5%	(1-175)	13.8%	. "	*	
lexachloroethane			0.0358		0.00962		**	ND		74.4%	(1-150)	11.9%	. "	#	
ndeno (1,2,3-cd) pyr	rene		0.0448		0.00481		*	ND	"	93.1%	(1-200)	0.3879	6 "	*	
sophorone			0.0375		0.00481		"	ND	"	77.9%	(10-200)	7.68%	. "	н	
Naphthalene		и	0.0376		0.00481	"	"	ND	"	78.3%	(10-150)	4.67%	. "	**	
Nitrobenzene		и	0.0352	***	0.00481		,,	ND		73.2%	(10-200)	8.90%	, "	*	
2-Nitrophenol			0.0378		0.00481		ø	ND	n	78.5%		7,17%	, "		
4-Nitrophenol		"	0.0418		0.0240	"	"	ND	"	86.8%	(1-150)	4,43%	. "	u	
N-Nitrosodimethylar	nine	er e	0.0296		0.00481	n	**	ND		61.7%		8.12%	. "	н	
N-Nitrosodi-n-propy	lamine		0.0379		0.00962	*		ND	п	78.9%	(1-250)	8.52%		u	
N-Nitrosodiphenylan	nine	"	0.0503		0.00481	н		ND	*	105%	(1-175)	5.25%		p.	
Pentachlorophenol			0.0459		0.00962	"		ND		95.4%	(5-200)	8.16%		н	
Phenanthrene			0.0439		0.00481	11		ND		91.4%	(20-150)	2.57%	. "	н	
Phenol			0.0344		0.00481	"		ND	, "	71.5%	(1-150)	6.00%	. "	н	
Pyrene			0.0440		0.00481	*		ND		91.6%	(20-150)	3.31%	. "	н	
1,2,4-Trichlorobenze	ene	и	0.0371		0.00481	"	**	ND	,,	77.2%	(1-150)	7.86%	. "	н	
2,4,6-Trichloropheno	ol	u u	0.0487		0.00481	**		ND	"	101%	(20-175)	4.88%		и	
Surrogate(s):	2-Fluorobiphenyl		Recovery:	80.7%	Lir	nits: 22-120%	"							12/05/07 20:33	3
	2-Fluorophenol			56.0%		5-120%	"							"	
	Nitrobenzene-d5			73.9%		26-127%	"							"	
	Phenol-d6			61.9%		4-121%	"							"	
	p-Terphenyl-d14			89.9%		37-130%	"							,	
	2.4.6-Tribromophenol			83.7%		21-129%	"							"	

TestAmerica Portland

Becom L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.







PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217

Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

Con	ventional Chem	nistry Paran	•		EPA Meth ca Portland	ods -	Laborat	tory Quali	y Contro	ol Result	ts		
QC Batch: 7111068	Water P	reparation M	lethod: Ge	eneral Pr	eparation								
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt RE	C (Limits)	RPD ((Limits) A	nalyzed	Notes
Duplicate (7111068-DUP1)				QC Source	: PQK0964-0	1			l: 11/28/07 2				
рН	150.1/9040A	6.87			pH Units	lx	6.82			0.730%	(25) 11/28	3/07 22:25	

QC Batch: 7120012	Water P	reparation M	ethod: G	eneral Pr	eparation									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7120012-BLK1)								Extr	acted:	12/03/07 08	: 10			
Cyanide (total)	EPA 335.4	ND		0.00500	mg/l	ix							12/03/07 14:53	
LCS (7120012-BS1)							_	Exti	acted:	12/03/07 08	; 10			
Cyanide (total)	EPA 335.4	0.406		0.00500	mg/l	Ix		0.400	102%	(90-110)			12/03/07 14:53	
Duplicate (7120012-DUP1)				QC Source:	PQK0737-0)1	_	Extr	acted:	12/03/07 08	:10			
Cyanide (total)	EPA 335.4	ND		0.00500	mg/l	1x	ND				NR	(20)	12/03/07 14:53	
Matrix Spike (7120012-MS1)				QC Source:	PQK0737-0)1		Extr	acted:	12/03/07 08	:10			
Cyanide (total)	EPA 335.4	0.403		0.00500	mg/l	lx	ND	0.400	101%	(90-110)			12/03/07 14:53	
Matrix Spike Dup (7120012-MS	D1)			QC Source:	PQK0737-0	1		Extr	acted:	12/03/07 08	:10			
Cyanide (total)	EPA 335.4	0.422		0.00500	mg/l	lx	ND	0.400	105%	(90-110)	4.61%	6 (20)	12/03/07 14:53	

TestAmerica Portland

Bream L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.





PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc.

Project Name:

CWT-Subcategory B

5555 N Channel Bldg #10 Portland, OR 97217

Project Number: Project Manager:

Lian Jewell

Report Created: 12/14/07 13:28

Con	iventional Che	mistry Para	•	r Standa estAmeric			Laborato	ry Qua	ality (Control	Result	S		
QC Batch: 7120171	Water P	reparation M	lethod: G	eneral Pr	eparation									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits) Analyzed	Notes
Blank (7120171-BLK1)								Exti	racted:	12/05/07 15	5:12			
Sulfide	SM 4500-S-2 F	ND		1.00	mg/l	lx							12/05/07 15:15	
LCS (7120171-BS1)								Ext	racted:	12/05/07 15	5:12			
Sulfide	SM 4500-S-2 F	17,6	**-	1.00	mg/l	lx		17.2	102%	(85-115)			12/05/07 15:15	
Duplicate (7120171-DUP1)				QC Source:	PQK0978-	10		Exti	racted:	12/05/07 15	5:12			
Sulfide	SM 4500-S-2 F	44.8		2.00	mg/l	lx	60.8				30.3%	(20)	12/05/07 15:15	R.
Matrix Spike (7120171-MS1)				QC Source:	PQK0978-	01		. Exti	acted:	12/05/07 15	5:12			
Sulfide	SM 4500-S-2	64.0		2.00	mg/l	lx	60,8	34.4	9.30%	(80-120)			12/05/07 15:15	Ma

TestAmerica Portland

Bream L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.





PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

THE EFFECT SA FIAMOUNDING AND TESTING

Cascade General, Inc. Project Name: CWT-Subcategory B

5555 N Channel Bldg #10 Project Number:
Portland, OR 97217 Project Manager

Project Manager: Lian Jewell

na

Report Created: 12/14/07 13:28

Notes and Definitions

Report Specific Notes:

M8

dry

A-01 - Estimated MDL.

Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

L6 - Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.

The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

- The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were

reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).

MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.

R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

RL1 - Reporting limit raised due to sample matrix effects.

RL3 - Reporting limit raised due to high concentrations of non-target analytes.

RL7 - Sample required dilution due to high concentrations of target analyte.

23 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR/NA _ Not Reported / Not Available

- Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.

wet Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.

RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries)

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory:

Bream L Come





PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Cascade General, Inc. Project Name: CWT-Subcategory B

 5555 N Channel Bldg #10
 Project Number:
 na
 Report Created:

 Portland, OR 97217
 Project Manager:
 Lian Jewell
 12/14/07 13:28

Electronic - Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy.

Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Brean L Come

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



Test/America

ADDITIONAL REMARKS OR REC'09 2004

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 11922 F. Fust. Ave. Spokane, WA 99206-5302

425-420-9200 FAX 420-9210 | 509-924-9200 FAX 924-9290 503-906-9200 FAX 906-9210 C

9405 SW Numbus Ave. Beaverton, OR 97008-7145 26th & Interpresental August Rd Sic 320, Anchorage, AK 99802-1119

907 563 9200 (FAN 563 9210)

Work Order #: + QKO CHAIN OF CUSTODY REPORT INVOICE TO: TURNAROUND REQUEST CLIENTE CAS CAISIE GOIEN ENCAL REPORT TO LIAN JEWELL ADDRESS: 5-5-5 MB CHANNEL in Business Days * Organic & Inorganic Analyses PROJECTNAME Subcotegory B P.O. NUMBER 5 4 3 2 1 <1 PRESERVATIVE PROJECT NUMBER SAMPLED BY: Bob Collinson Furnaround Requests less than standard may mean Rush Charge MATRIX # OF LOCATION CHENT SAMPLE SAMPLING (W, S, O) CONT. COMMENTS WOID IDENTIFICATION DATE TIME T-7-11-28-07 11-28-07 14:45 13 11 () T) 18 11 TV. 17 11 11 FIRM. (AS CADE GENERAL TIME: 1520

DATE: 11-28-03

TIME: 1640 RELEASED BY. PRINT NAME.

TestAmerica Sample Receipt Checklist Work Order No Received by: Unpacked by: Loaged-in by: Client: ":section A) Project: Temperature out of range Initials: Not enough Ice No ice K Ice Melted ***ESI Clients (see Section C) W/in 4 Hours glass NA (oil/air samples, ESI client) Temperature Blank: Cooler Temperature (IR): B Custody Seals: (#) Sample Status: Signature: Y N Dated: (If N circled, see NOD) Received from: General: TA Courier Intact? Container Type: Senvoy #Cooler(s) # Containers Match COC? none given #Box(s) Fed Ex IDs Match COC? Ν None (#Other: Client For Analyses Requested: TOP Correct Type & Preservation? Coolant Type: Ν DHL Gel Ice Adequate Volume? Ν SDS Loose Ice Within Hold Time? Ν Mid-Valley None GS/TA Volatiles/ Oil Quality: GS/Senvoy VOAs/ Syringes free of Headspace? Packing Material: Ν NA **Bubble Bags** Other: TB on COC? not provided NA Styrofoam Cubbies Metals: None (Other: HNO3 Preserved? Υ Ν NA Dissolved Metals Filtered? Ν ESI Clients Only: NO FED EX/ UPS: Was the tracking paper keepable? Temperature Blank 'C not provided If circled NO, what is the Tracking number? All preserved bottles checked Y N NA (voas/soils/all unp.) FED EX Goldstreak DHL Other: All preserved accordingly? Y N (see NOD) NA -voas/soils/all unp) Project Managers PM F- Jewed _____ (Initial/Date)



CITY OF PORTLAND



Water Pollution Control Laboratory

6543 North Burlington Avenue, Portland, Oregon 97203-5452	Dean Marriott, Director	Dan Saltzman, Commissioner
BATCH DISCHARGE	REQUEST FORM	

Waste Generator Information

Permit Contact

Information

Source Name

Cascade General

Name

Charles Isted

Address

Cascade General

Source Address

5555 N. Channel Ave.

5555 N. Channel Ave

Portland, OR

Portland, OR 97217

Telephone Number

503/247-1959

Facsimile Number

503/247-6050

Batch Information

CWTB

97217

Email Address

cisted@casgen.com

Proposed Discharge

Volume:*

550,000 gal

Batch Number:

Date Proposed:

Actual Discharge

Request Date/Time:

01/05/2009 1300

Volume: Sampling Location:

Tank-7, BWTP

Duration of Discharge:

01/07/2009 Start: 01/07/09 1200

Stop: 01/10/09

Sampled? YES NO

Detail the Process(es) Generating Wastewater & Wastewater Characteristics

CWT-B

Discharge flow will be stopped if heavy rain develops. Flow will be held below 180 gpm. Are the analysis sheets, QA/QC and chain of custody attached? YES or NO (circle one)

City Use Only

Batch discharge approval:

YES or NO

Date of Approval:

/2009

Approved By:

Biola Cruse

Batch Discharge Denied Due to the Following:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Date: 01-05-09

All self-monitoring reports (SMR) must include the following to be considered complete. For more detailed information regarding these items, please refer to the colored reference sheet. If you have any questions, please contact your permit manager for assistance.

Self Monitoring Report Check List:

- ρ Chain of Custody form
- ρ Analytical Results with Method Detection Limits (MDL)
- ρ QA/QC Results
- ρ Signed Signatory Certification Statement (Printed on bottom of SMR)
- ρ Completed Self Monitoring Report form

To assure prompt delivery, mail all monitoring results to:

Industrial Source Control Division Water Pollution Control Laboratory 6543 N. Burlington Avenue Portland, OR 97203-5452

Attn: Biola Cruse

CITY OF PORTLAND INDUSTRIAL WASTEWATER DISCHARGE SELF-MONITORING REPORT

INDUSTRY NAME:	Vigor Industrial
PERMIT NUMBER:	437.003
REPORT DUE DATE:	Prior to Batch Approval
SAMPLING PERIOD:	November, 2008
Ballast Water Treatment I	Plant Effluent - (CWT - B)

For Industrial Sc	ource Control Division Use Only
rate Postmarked/Received	Date Entered
mments:	Entered By:

SAMPLE DATE	POINT OF	COMPLIANC	6 <u>L</u>				
	CV	VT2B		GRAB			
PARAMETER	ANALYSIS METHOD	ETHOD CONCENTRATION		MDL	LII DAILY	MITS MONTHLY	COMMENTS
HEM Oil and Grease (Non-Polar)	EPA 1664-SGT	ND	mg/L	4.72 mg/L	110 mg/L	N/A	Local Limit
pH	EPA 150.1	9.11	pH Units		5.0 - 11.5	N/A	Local Limit
Bis-2-ethyhexylphthalafe	EPA 625 SIM	ND	mg/L	0.0298 mg/L	0.267 mg/L	0.158 mg/L	
Carbazole	EPA 625 SIM	0.00708	mg/L	0.00238 mg/L	0.392 mg/L	0.233 mg/L	
Fluoranthane	EPA 625 SIM	ND	mg/L	0.00238 mg/L	0.787 mg/L	0.393 mg/L	The state of the s
n-Decane	EPA 625 SIM	0.0274	mg/L	0.0119 mg/L	5.79 mg/L	3.31 mg/L	100000 1000000
n-Octadecane	EPA 625 SIM	ND	mg/L	0.0121 mg/L	1.22 mg/L	0.925 mg/L/-	Control of the contro
PCP	EPA 625	ND	mg/L	0.010 mg/L			The Property of the Property o

If the value of HEM Oil and Grease Total is greater than 110 mg/L, then the Permittee shall analyze the sample for the HEM Oil and Grease Non-Polar constituent

SAMPLE DATE	POINT OF	COMPLIANCE		SAMPLE TYPE			
	C	WT2B		COMPOSITE			
PARAMETER	ANALYSIS METHOD	The transfer of the following the first of the party of the first of	RTED TRATION	MDL	LIN DAILY	COMMENTS	
Antimony	EPA 200.8	0.00622	mg/L	0.00225 mg/L	0.237 mg/L	0.141 mg/L	
Barium (Total)	EPA 200.8	0.0252	mg/L	0.00225 mg/L	0.427 mg/L	0.281 mg/L	
Chromium (Total)	EPA 200.8	0.00775	mg/L	0.00225 mg/L	0.947 mg/L	0.487 mg/L	
Cobalt (Total)	EPA 200.8	0.0135	mg/L	0.00450 mg/L	56.4 mg/L	18.8 mg/L	
Copper (Total)	EPA 200.8	0.0300	mg/L	0.0112 mg/L	0.405 mg/L	0.301 mg/L	
Lead (Total)	EPA 200.8	ND	mg/L	0.00225 mg/L	0.222 mg/L	0,172 mg/L	
Molybdenum (Total)	EPA 200.8	0.197	mg/L	0.00450 mg/L	1.4 mg/L	2.09 mg/L	
Tin (Total)	EPA 200.7	ND	mg/L	0.00002 mg/L	0,249 mg/L	0.146 mg/L	
Zinc (Total)	EPA 200.8	0.0267	mg/L	0.00900 mg/L	3.7 mg/L	4.46 mg/L	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of any knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the passibility of first and imprisonment for knowing violations.

Signature:

Date: 01-05-09

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Monday, December 29, 2008

Bob Collinson VIGOR Industrial, LLC 5555 N. Channel Ave. Portland, OR 97217

RE: Sub Cat 'B' / 1-000-0002-100

Enclosed are the results of analyses for work order <u>A812051</u>, which was received by the laboratory on 12/5/2008 at 1:55:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory 1D	Matrix	Date Sampled	Date Received
T-7-12-5-08 Sub Cat 'B'- Grab	A812051-01	Water	12/05/08 11:15	12/05/08 13:55
T-7-12-5-08 Sub Cat 'B'- Composite	A812051-02	Water	12/05/08 00:00	12/05/08 13:55

Apex Laboratories

 $\label{thm:continuous} The\ results\ in\ this\ report\ apply\ to\ the\ samples\ analyzed\ in\ accordance\ with\ the\ chain\ of$ custody document. This analytical report must be reproduced in its entirety.

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

ANALYTICAL SAMPLE RESULTS

	Purgeable Organic Compounds by EPA 624												
			Reportin	g									
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-7-12-5-08 Sub Cat 'B'- Grab (A	812051-01)		Matrix: W	ater			R-04						
Acrylonitrile	ND		0.0200	mg/L	20	12/05/08 14:47	EPA 624						
Chlorobenzene	ND		0.0100	n	17	n	ų						
Chloroform	ND		0.0400	P	"	n	n						
1,2-Dichloroethane (EDC)	ND		0.0100	W	n	12	n						
Trichloroethene (TCE)	ND		0.0100	n		**	"						
Surrogate: Dibromofluorometho	me (Surr)	Rec	overy: 95 %	Limits: 80-120 %	1	n	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
1,4-Difluorobenzene	(Surr)		93 %	Limits: 80-120 %	*	4	11						
Toluene-d8 (Surr)			98 %	Limits: 80-120 %	n	н	"						
4-Bromofluorobenze.	ne (Surr)		106 %	Limits: 80-120 %	1)	r	11						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

ANALYTICAL SAMPLE RESULTS

			Reporting	ď				
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
7-7-12-5-08 Sub Cat 'B'- Grab (A	A812051-01)		Matrix: W	'ater				
Bis(2-ethylhexyl)phthalate	ND		0.0298	mg/L	25	12/16/08 17:58	EPA 625 SIM	
Carbazole	0.00708		0.00238	U	•	0	11	
2,4-Dinitrotoluene	ND		0.0893	U	u	u u	¥f	
Decane	0.0274		0.0119	. "	•	M	n	M-0
Fluoranthene	ND		0.00238	n	н	M	*	
Nitrobenzene	ND		0.00452	19	n	19	п	R-0
Octadecane	ND		0.0121	if	17	v	n	R-0
Surrogate: Nitrobenzene-d5 (St	urr)	Reco	very: 140 %	Limits: 35-120 %	11	U U	"	S-0
2-Fluorobiphenyl (S	arr)		91%	Limits: 45-120 %	h	n	н	
p-Terphenyl-d14 (St	irr)		106 %	Limits: 30-120 %	n	at .	n	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

ANALYTICAL SAMPLE RESULTS

		To	tal Metals by EP	A 200.8 (I	CPMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
-7-12-5-08 Sub Cat 'B'- Composite (A812051-02)			Matrix: Water					
Antimony	0.00622		0.00225	mg/L	1	12/11/08 13:58	EPA 200.8	
Arsenic	0.0184		0.00225		**	11	п	
Barium	0.0252		0.00225		п	11	v	
Cadmium	ND		0.00225	79	. "	и	11	
Chromium	0.00775		0.00225	19	19	н	et	
Cobalt	0.0135		0.00450	17	11	n	n	
Copper	0.0300		0.0112	17	n	n	n	
Lead	ND		0.00225	η	n	н	н	
Molybdenum	0.197		0.00450	н	*	17	n	
Nickel	0.115		0.00225	*		0	н	
Selenium	0.0400		0.00225	"	n	IF.	n	
Silver	ND		0.00450	9	,	п	v	
Zinc	0.0267		0.00900	ur .	n	и	v	

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N, Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

ANALYTICAL SAMPLE RESULTS

	Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-7-12-5-08 Sub Cat 'B'- Grab (A812051-01)			Matrix: Wate	er									
HEM (Oil and Grease)	6.60		4.72	mg/L	1	12/05/08 20:41	EPA 1664						
SGT-HEM (Non-polar Material)	ND		4.72	u-	н	12/08/08 15:09	EPA 1664-SGT						
рН	9.11			pH Units	U	12/05/08 16:36	EPA 150.1						
pH Temperature	15.2			deg C	**	ta	D						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	Determination of Acid Extractable Compounds													
			Reporting	2										
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes						
T-7-12-5-08 Sub Cat 'B'- Grab (A8	12051-01)	-	Matrix: W	ater										
Pentachlorophenol	ND	0.096	0.378	mg/l	10	12/12/08 14:53	EPA 625							
Surrogate: 2-Fluorophenol			Recovery: %	Limits: 60-121 %	n	н	и	S-01						
Phenol-d6			%	Limits: 60-140 %	p	O	,,	S-01						
2,4,6-Tribromophenol			%	Limits: 60-140 %	"	11	H	S-01						
T-7-12-5-08 Sub Cat 'B'- Grab (A8	12051-01RE1)		Matrix: W	ater										
Pentachlorophenol	ND	0.010	0.038	mg/l	Ī	12/12/08 16:16	EPA 625							
Surrogate: 2,4,6-Tribromophenol	***************************************	Rec	overy: 74.3 %	Limits: 60-140 %	н	,,	ıı							

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	Determination of Organochlorine Insecticides & PCBs												
Analyte	Result	MDL	Reporting Limit	g Units	Dilution	Date Analyzed	Method	Notes					
T-7-12-5-08 Sub Cat 'B'- Grab (A812	2051-01)		Matrix: W	ater									
Chlordane	ND	0.00160	0.00200	mg/l	20	12/10/08 08:44	EPA 608						
Surrogate: Tetrachloro-m-xylene		Reco	very: 333 %	Limits: 60-139 %	11	n n		S-02					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	Determination of Conventional Chemistry Parameters												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes					
T-7-12-5-08 Sub Cat 'B'- Gr	rab (A812051-01)		Matrix: Water										
Cyanide, total	0.021	0.002	0.007	mg/l	1	12/11/08 08:31	SM 4500CN-E						
Sulfide, total	0.43	0.028	0.20	v	2	12/09/08 14:44	EPA 376.2						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

ANALYTICAL SAMPLE RESULTS (Subcontracted)

	Determination of Total Metals												
Reporting Analyte Result MDL Limit Units Dilution Date Analyzed Method													
T-7-12-5-08 Sub Cat 'B'- Composite	(A812051-02)		Matrix: Water		•								
Mercury, total	ND	0.00002	0.00050	mg/l	1	12/09/08 15:36	EPA 245.1						
Tin, total	ND	0.04	0.25	"	"	12/11/08 13:11	EPA 200.7						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industriat, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

QUALITY CONTROL (QC) SAMPLE RESULTS

	Purgeable Organic Compounds by EPA 624												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 8120064 - EPA 5030B							Wat	ter					
Blank (8120064-BLK1)								Analyzed:	12/05/08 1	10:44			
EPA 624													
Acrylonitrile	ND		0.00100	mg/L	Ī								
Chlorobenzene	ND		0.000500	n	р								
Chloroform	ND		0.00200	17	ti								
1,2-Dichloroethane (EDC)	ND		0.000500	11	11								
Trichloroethene (TCE)	ND		0.000500	tr									
Surr: Dibromofluoromethane (Surr)		Rec	overy: 98 %	Limits:	80-120 %	Dili	ution: Ix			~~			
1,4-Difluorobenzene (Surr)			99 %		80-120 %		u						
Toluene-d8 (Surr)			98 %		80-120 %		u						
4-Bromofluorobenzene (Surr)			103 %		80-120 %		"						
LCS (8120064-BS1)							•	Analyzed:	12/05/08 (9:43			
EPA 624													
Acrylonitrile	0.0179		0.00100	mg/L	1								
Chlorobenzene	0.0193		0.000500	n	ii.			97	n				
Chloroform	0.0173		0.00200	n	n	n		87	n				
1,2-Dichloroethane (EDC)	0.0177		0.000500	"	n	11		88	**				
Trichloroethene (TCE)	0.0200		0.000500	9	и	11		100	"				
Surr: Dibromofluoromethane (Surr)		Rec	overy: 98 %	Limits:	80-120 %	Dilı	ution: 1x						
1,4-Difluorobenzene (Surr)			100 %		80-120 %		"						
Toluene-d8 (Surr)			98 %		80-120 %		" .						
4-Bromofluorobenzene (Surr)			102 %		80-120 %		"						

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave. Portland, OR 97217 Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

QUALITY CONTROL (QC) SAMPLE RESULTS

			e Organic C	•	-		,		· · · · · · · · · · · · · · · · · · ·		- ACARCE	
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8120119 - EPA 3510C							Wa	ter				,
Blank (8120119-BLK1)								Analyzed	: 12/16/08	16:43		
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	ND		0,00125	mg/L	1							B-0
Carbazole	ND		0.000100	.,	19							
2,4-Dinitrotoluene	ND		0.00375	**	"							B-0
Decane	ND		0.000500	л	11							
Fluoranthene	ND		0.000100		R							
Nitrobenzene	ND		0.000100	п	P							
Octadecane	ND	~~~	0.000500	19	н							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 85 %	Limits:	35-120 %	Dil	ution: lx					*** * ** ****** * *** * * *****
2-Fluorobiphenyl (Surr)			80 %		45-120 %		"					
p-Terphenyl-d14 (Surr)			91 %		30-120 %		п					
LCS (8120119-BS1)								Analyzed	: 12/16/08 1	7:08		
EPA 625 SIM								<u> </u>				
Bis(2-ethylhexyl)phthalate	0.00393		0.00125	mg/L	1	0.00500		79	40-125%			
Carbazole	0.00508		0.000100	n	u	u		102	19			
2,4-Dinitrotoluene	0.00515		0.00375	н	n	n		103	17			
Decane	0.00301		0.000500	r)	n	н		60	đ			
Fluoranthene	0.00509		0.000100	11	n	н		102	55-120%			
Nitrobenzene	0.00443		0.000100	v	11	1)		89	40-125%		′′	
Octadecane	0.00411		0.000500	*1	v	e		82	н	·		
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 85 %	Limits:	35-120 %	Dilı	ution: lx					
2-Fluorobiphenyl (Surr)			81%		45-120 %		"					
p-Terphenyl-d14 (Surr)			92 %		30-120 %		"					
LCS Dup (8120119-BSD1)								Analyzed	12/16/08 1	7:33		
EPA 625 SIM												
Bis(2-ethylhexyl)phthalate	0.00385		0.00125	mg/L	1	0.00500		77	40-125%		30%	
Carbazole	0.00497		0.000100	D	n	n		99	u		30%	
2,4-Dinitrotoluene	0.00534		0.00375	υ	n	н		107	n		30%	
Decane	0.00262		0.000500	.,	n	n		52	н		30%	
Fluoranthene	0.00490		0.000100	tr	Ð	19		98	55-120%		30%	
Nitrobenzene	0.00449		0.000100	н	. •	**		90	40-125%		30%	
Octadecane	0.00351		0.000500	н	17	n		70	**		30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 89 %	Limits:	35-120 %	Dilı	ntion: lx					
2-Fluorobiphenyl (Surr)			84 %		45-120 %		"					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dann/ Jun

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625 Modified (SIM Analysis)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8120119 - EPA	3510C						Wat	er				
LCS Dup (8120119-BSD1)								Analyzed:	12/16/08	17:33		
Surr: p-Terphenyl-d14 (Su	17)	Reco	very: 91%	Limits:	30-120 %	Dil	ution: 1x					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 13 of 26

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported: 12/29/08 10:21

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total	Metals by	EPA 20	0.8 (ICPMS	6) ———————					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8120129 - EPA 3015							Wat	ter				
Blank (8120129-BLK1)								Analyzed:	: 12/11/08	13:15		
EPA 200.8							P 1987 81181 88 U.S.					
Antimony	ND		0.00100	mg/L	l							
Arsenic	ND		0.00100	er	**							
Barium	ND		0.00100	n	и							
Cadmium	ND		0.00100	p	,							
Chromium	ND		0.00100	ů.	**							
Cobalt	ND		0.00200	D	71							
Copper	ND		0.00500	17	M		**-					
Lead	ND		0.00100	**	11							
Molybdenum	ND		0.00200	н	н							
Nickel	ND		0.00100	н	H						·	
Selenium	ND		0.00100	n	n		***					
Silver	ND		0.00200	"	"							
Zinc	ND		0.00400	v	D							
CS (8120129-BS1)								Analyzed:	12/11/08 1	3:18		
EPA 200.8				,								
Antimony	0.0305		0.00100	mg/L	1	0.0278	***		85-115%			
Arsenic	0.0561		0.00100	n	*	0.0556		101				
Barium	0.0575		0.00100	H	p	п		104	n			
Cadmium	0.0573		0.00100	*1	10	н		103	n			
Chromium	0.0573		0.00100	**	12	"		103	,,			
Cobalt	0.0572		0.00200	H	u u	n		103	n			
Copper	0.0576		0.00500	lı	п	19		104	19			
Lead	0.0564		0.00100	н	н	41		102	111			
Molybdenum	0.0297		0.00200	п	11	0.0278		107	tr.			
Nickel	0.0573		0.00100	17		0.0556		103				
Selenium	0.0269		0.00100	17	b	0.0278		97				
Silver	0.0294		0.00200	17	17	pt.		106	μ			
Zinc	0.0545		0.00400		"	0.0556		98	n			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Reported: 12/29/08 10:21

Project Manager: Bob Collinson

QUALITY CONTROL (QC) SAMPLE RESULTS

			Conve	ntional Ch	emistry	/ Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8120067 - EPA 1664							Wa	ter				
Blank (8120067-BLK1)								Analyzed:	12/05/08	20:41		
EPA 1664								.,				
HEM (Oil and Grease)	ND		5.00	mg/L	1							
Blank (8120067-BLK2)								Analyzed:	12/08/08	15:09		
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	ND		5.00	mg/L	1							
LCS (8120067-BS1)								Analyzed:	12/05/08	20:41		
EPA 1664												
HEM (Oil and Grease)	38.5			mg/L	1	40.0		96	78-114%			
LCS (8120067-BS2)								Analyzed:	12/08/08	15:09		
EPA 1664-SGT												
SGT-HEM (Non-polar Material)	17.7			mg/L .	1	20.0		88	64-132%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson Reported:

12/29/08 10:21

QUALITY CONTROL (QC) SAMPLE RESULTS

	***		Conve	entional Ch	nemistry	Paramete	rs					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result		%REC Limits		RPD Limit	Notes
Batch 8120078 - Method P	rep: Aq						W	ater				
Duplicate (8120078-DUP1)					Source	e: A812051-0	1	Analyzed:	12/05/08	16:37		
EPA 150.I								**********				
pH	9.10			pH Units	1		9.11			0.110	10%	
pH Temperature	16.3			H	n		15.2			6.98	200%	
Reference (8120078-SRM1)								Analyzed:	12/05/08	16:33		
PA 150.1		-										
pH	7,90			pH Units	1	8.00		98.8 98.	75-101.25	%		
Reference (8120078-SRM2)								Analyzed:	12/05/08	16:38		
CPA 150.1												
pH	5.99			pH Units	l	6.00		99.8 98	3.3-101.7%	ó		

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 12/29/08 10:21

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

		Dete	rmination e	of Organ	ochlorine	Insecticide	es & PC	Bs	····			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits		RPD Limit	Notes
Batch 1L80923 - 3510C NF	P/OC Sep F	nl					Wa	iter		•		
Blank (1L80923-BLK1)								Analyzed	l: 12/ 0 9/08	16:44		
EPA 608												
Chlordane	ND	0.00008	1000.0	mg/l	1							
Surr: Tetrachloro-m-xylene		Recove	ry: 97.2 %	Limits:	60-139 %	Dilı	ition: Ix		,			
LCS (1L80923-BS1)								Analyzed	l: 12/09/08	17:49		
EPA 608			· · · · · · · · · · · · · · · · · · ·			.,,						
Chlordane	0.004	80000.0	0.0001	mg/l	1	0.00500000		83.5	70-130%			
Surr: Tetrachloro-m-xylene		Recove	ry: 80.6 %	Limits:	60-139 %	Dilı	tion: 1x					
LCS Dup (1L80923-BSD1)								Analyzed	1: 12/09/08	18:21		
EPA 608												
Chlordane	0.005	0.00008	0.0001	mg/l	1	0.00500000		92.1	70-130%		30%	
Surr: Tetrachloro-m-xylene		Recove	ry: 89.9 %	Limits:	60-139 %	Dih	ition: Ix					
Reference (1L80923-SRM1)								Analyzed	1: 12/09/08	18:52		
EPA 608												
Chlordane	0.005	0.00008	0.0001	mg/l	1	0.00500000		104	70-130%			
Surr: Tetrachloro-m-xylene		Recove	ery: 107 %	Limits:	60-139 %	Dila	tion: Ix					

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

		Det	ermination o	of Conver	ntional C	hemistry P	aramete	rs				
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L80912 - Wet Ch	em Preparati	on					Wa	ter				
Blank (1L80912-BLK1)							-	Analyzed:	12/09/08	14:44		
EPA 376.2		•										
Sulfide, total	ND	0.014	0.10	mg/l	1					***	4	
LCS (1L80912-BS1)								Analyzed:	12/09/08	14:44		
EPA 376.2												
Sulfide, total	0.325	0.014	0.10	mg/l	1	0.420000		77.5	60-133%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

		Det	ermination o	of Conve	ntional C	Chemistry P	aramete	rs		_	·	
Analyte	Result	MDL	Reporting Limit	Units	Dit.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L81114 - Wet Che	em Preparati	on					Wa	ter				
Blank (1L81114-BLK1)								Analyzed:	12/11/08	08:31		
SM 4500CN-E												
Cyanide, total	ND	0.002	0.007	mg/1	1							
LCS (1L81114-BS1)								Analyzed:	12/11/08	08:31		
SM 4500CN-E				2.22 - W. C. C. C.								
Cyanide, total	0.018	0.002	0.007	mg/l	1	0.0200000		92.2	75-114%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 19 of 26

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

			Det	terminatio	on of To	tal Metals					-	
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L80811 - EPA 24	5.1 Hg Dig						Wa	ter				
Blank (1L80811-BLK1)								Analyzed:	12/09/08	15:01		
EPA 245.1												
Mercury, total	0.00002	00.00002	0.00050	mg/l	1							
LCS (1L80811-BS1)								Analyzed:	12/09/08	15:03		
EPA 245.1												
Mercury, total	0.00269	0.00002	0.00050	mg/l	1	0.00250000		108	63-140%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 20 of 26

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported:

12/29/08 10:21

Keystone Laboratories, Inc. - Newton

QUALITY CONTROL (QC) SAMPLE RESULTS

			Det	erminatio	n of Tot	al Metals						
Analyte	Result	MDL	Reporting Limit	Units	Dil,	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1L80916 - EPA 3010	A Total ICI	>					Wa	ter				
Blank (1L80916-BLK2)								Analyzed	: 12/11/08	12:16		
EPA 200.7												
Tin, total	ND	0.04	0.25	mg/l	1							
LCS (1L80916-BS2)								Analyzed	: 12/11/08	12:20		
EPA 200.7												
Tin, total	1.90	0.04	0.25	mg/l	i	2.00000		94.9	81-118%			

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

SAMPLE PREPARATION INFORMATION

		Pu	rgeable Organic Con	pounds by EPA 624			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8120064							
A812051-01	Water	EPA 624	12/05/08 11:15	12/05/08 14:24	5mL/5mL	5mL/5mL	1.00
		Semivolatile Org	janic Compounds by	EPA 625 Modified (S	IM Analysis)		
Prep: EPA 3510C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8120119			_				
A812051-01	Water	EPA 625 SIM	12/05/08 11:15	12/10/08 09:38	1050mL/5mL	1000mL/5mL	0.95
			Total Metals by EPA	A 200.8 (ICPMS)			
Prep; EPA 3015					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8120129							
A812051-02	Water	EPA 200.8	12/05/08 00:00	12/10/08 13:32	20mL/50mL	45mL/50mL	2.25
			Conventional Chemi	istry Parameters			
Prep: EPA 1664					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8120067				•		****	
A812051-01	Water	EPA 1664	12/05/08 11:15	12/05/08 14:23	1N/A/ 1 N/A	1N/A/1mL	NA
A812051-01	Water	EPA 1664-SGT	12/05/08 11:15	12/05/08 14:23	IN/A/IN/A	1N/A/1mL	NA
Prep: Method Prep	: <u>Ag</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8120078							
A812051-01	Water	EPA 150.1	12/05/08 11:15	12/05/08 15:40	20mL/20mL	20mL/20mL	NA

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100 Project Manager: Bob Collinson

Reported: 12/29/08 10:21

Keystone Laboratories, Inc. - Newton SAMPLE PREPARATION INFORMATION

		Dete	rmination of Acid E	ktractable Compound	s		
Prep: 3520C BNA	Cont Liq				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1L80839				•			
A812051-01	Water	EPA 625	12/05/08 11:15	12/09/08 00:00	1058ml/5ml	1000ml/1mL	4.73
A812051-01RE1	Water	EPA 625	12/05/08 11:15	12/09/08 00:00	1058ml/5ml	1000ml/1mL	4.73
		Determi	nation of OrganochI	orine Insecticides & P	'CBs		
Prep: 3510C NP/O	C Sep Fnl	,			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1L80923							
A812051-01	Water	EPA 608	12/05/08 11:15	12/08/08 00:00	1026ml/5ml	1000ml/5mL	0.98
		Determi	nation of Convention	nal Chemistry Parame	ters		·
Prep: Wet Chem P	reparation				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1L80912						·	
A812051-01	Water	EPA 376.2	12/05/08 11:15	12/09/08 10:49	15ml/15ml	15ml/15mL	1.00
Batch: 1L81114			•				
A812051-01	Water	SM 4500CN-E	12/05/08 11:15	12/11/08 08:31	50ml/50ml	50ml/50mL	1.00
		7	Determination o	f Total Metals			
Prep: EPA 245.1 H	g Dig				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1L80811							
A812051-02	Water	EPA 245.1	12/05/08 00:00	12/09/08 08:16	20ml/20ml	20ml/20mL	1.00
Prep: EPA 3010A 7	Total ICP				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1L80916	· · · · · · · · · · · · · · · · · · ·						
A812051-02	Water	EPA 200.7	12/05/08 00:00	12/09/08 12:04	50ml/50ml	50ml/50mL	1.00

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

Project: Sub Cat 'B'

5555 N. Channel Ave.

Project Number: 1-000-0002-100

Portland, OR 97217

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

Notes and Definitions

Qualifiers:

B-02 Analyte detected in the extraction blank at a level below the MRL, but greater than one-half the MRL. 1 Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). M-02 Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

R-04 Reporting levels elevated due to dilution necessary for analysis.

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in

the sample extract.

S-05 Surrogate recovery cannot be accurately quantified due to sample dilution required from high analyte concentration and/or matrix interference.

Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Batch Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All

analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories

QC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Page 24 of 26

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC

5555 N. Channel Ave. Portland, OR 97217 Project: Sub Cat 'B'

Project Number: 1-000-0002-100

Project Manager: Bob Collinson

Reported: 12/29/08 10:21

APEX LABS					-	5	₹	Z	CHAIN OF CUSTODY	ប៊	8		ě	<u>ت</u>		2		3	A.	_50	2	1812.057		8	200	4	1	
1222 & W. Courden Place, Toyard, ON 97233 Phr 503-318-2321; Par. 503-712-0135	C/5 X/O	23 PE	503-25	3.2321	Par S	7.63-7.	13-43	15																				
Company Vigor Inclustrion	3		Project Mpr.	Npr							Į į	ž ti	1	3	0	Proper Name SUB CAY	50	-	Г	Profite 3)				İ			
Authoric	.							- 5'	Pane.				f	Ë				1003	1 ⊭					İ				7
Scariffical levi		ĺ														,ver.	ANALYSIS REQUEST	E E	É				15 T		(## 120		14.7 14.7	1.25
SNAFUE ED	CVII ID A	£1¥ά	ævil	ZIETAM	A OF CONTAINERS	ANTER MOID	ZG-HITTIN -O-sierzek	BTEX BTEX	STAD REDIK VICES	इंट्रेस्ट्रेप बालार सहिद्दार	530A 4928	allay tere over	809 ianim	BERR CEURC, Pest	RCSYV WS-IUP. [8]	transly herial (13)		FCLP Atouts (8)	1360-COF8	2.0M	1 00 1 Sin 61	איין מון הייאוכ	519 10	1 44 4 4	1.01.8 31.00.00	र वस्त्र भूग	<u> </u>	1
Sub CAT'B' Chash					H	$\vdash \vdash$	\vdash	\vdash				\prod			4-4					4					1X		+	7
Sund (2017 1812) 20 11 12	1				\neg		-		-				\top	-	+		,							\vdash	\vdash		1	1
מקרים און שושיים או	L					-	+	+	4	1			+	~ ~	+	+	X		\top	7	ᅺ	-	+	-	+	-	+	7
	1				T	+-	+		-	L	I	Ī.	T	1	+	-				-	+	╁	- -	+	+		-	7
						-	<u> </u>	-	<u> </u>			T	1	T	1	+-		1	1	-	t	十	-	1	+	-	1	7
AVAN 11							H	-	H	Ш					\vdash	-		1	T	ļ	\vdash	-		╀	- Indian	┼	╀	7
and the state of t													-	\vdash	\vdash				2000			-	-	\vdash		-	\vdash	7
										Ц		П			H			Ī	ļ	-	†	-	-	-		 	╀	7
	-					-	-							Н	\vdash	-				***		-	-	┝	<u> </u>	 		7-
Numai Tum Added Tum (TAT) + 5:0 Suggest Oays	i Adh	16 Terre	347	S-10 Flux	Jue Su	2312				SPE	בוער	(SXI.	SPECIAL INSTRUCTIONS	102	ž											Ì	1	T
TAT Requested (cirds)	MIR 4 DAY		S DAY		Other.				•																			
SARIPE	SS AR	B STEEL	JE BOJ C	DAYS	-																							
Pertinguesing hy. Heracio	Ž.		LAKE BYENE SEPTIMENT SEPTIMENT	Storing.	An on	,				E #	Britanguished hy Sigerale	130851	ž		-		ž				1 5	RECEIVED HYY Siprose	E 072	_			ļ.	7
Priod Nur.	ğ			(Mater) State?	Sec.		ì	1	1	12	Period Bares	Į,					Taec.			ĺ	-	Presid Nucre	E					7
Cheepat.				Chrysnys				į	Mg shape	5	Christini;							:		į	ľ	Conservo	- C	-			.	·
							Christian	-	1	1		}						1			Ì	-	-	ı	1	1		7

Apex Laboratories

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

VIGOR Industrial, LLC 5555 N. Channel Ave.

Portland, OR 97217

Project: Sub Cat 'B'

Project Number: 1-000-0002-100
Project Manager: Bob Collinson

Reported: 12/29/08 10:21

APEX LABS						CHAIN OF CUSTODY	A.	Ö	្ត	S	Ş	\geq							1900 B	Ę			al A	. 1		
12232 S.H. Gandon Plans, Tigainet OR 97333 Phr. 163-718-3233 Fize: 503-718-0333	HE SEEDS	198. 36.	3-718-33	23 Fax	503.7	76-033	<u>.</u>								. :		2	3	2	3	J					
CHEMING CASOLDE GRANICOL	1.00	7	Probert Mean	189						Æ	4	Principles: 546	377	V	Į,	cv.		- ξ	Projectiv	1	00	00/-2000-000-/	N.	5	[0	
WHITE SESSE N. CHANNEL	۰ I	¥. \\	Ž.	Ö	ا اير			French				5.	s S ii	2-2	- 41	825-247 -1 640	1	-4	# **		7	9	7*	7,	91	_
Sampled by:			Ì		and W						100	76		1111	15.35						3	٥,			٧٠ <u>٢</u> د ۱	
Size Jacaline: OR WA	\$ OI S	31.	Ę	XIII	F CONTAINERS	.s.a+o≖ .c.a-uc.u	ro-nai.		ON HELD OR HELD	PARCE FOR HELD	SIM MIS	7 LCB2	Chler Peet (Ch Meinde (N)	icily anima (13)	אלי אפי אל אי צע צלי עוור אפי אני צר צוי שי פרי צרי בר בר צוי שי פרי אי צע	<u> </u>	्रिक्ष स्थाप	F0 07 P2 3 20 - COM	1 100 2 has 12 th	ī.	462,5,50 A	130,1 PH 6 1,021 1,024 62.00 2,01,02 1,00 1,00 1,00 1,00 1,00 1,00	C = 1.00 0 =		809 3A1Y84	
ᆲᆲ		γο ?? 9	#.07 <u>/</u>	1 ~31	0 * 12	سعبت بتعمم		i i;ii		,,-		mm franci		- 1 -				10021 A	KB X	KIE K	43 ×	X	78 X		70 X 703 X	
Sub Car '8'							_		_			-	ļ				\vdash						-	_		
						-			-			-	-	1		İ	1	<u> </u>				\dagger		╁	, ,	
					Г	<u> </u>	-		-	-13.71			├-	┞╌	_	-	┢	-			هنئند ا	\vdash	-	╀		
						-			H	1902 Za		-		\vdash			1	 	1		T	\vdash	 	+	1	
	-		-						_	T.W.		-	-	 			┢	-	L		-	T		╀	_	
					_	سند						SERVE.		<u> </u>	75.15		-				_	\vdash	-	<u> </u>		
						ingeni,	Ц						 	-	-	l	1	 			1		 	-	,	
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	-												-			r	-				246,00-40			-	· T	
									\dashv				\vdash	\square				_					-		F	
Noticed The Areard Tense (TAT) as Safe Business Days	Andred	Tenerra	1325-10	Na Core	S Days	I			Ť	ECIVI	SNS.1	SPECIAL SNSTRUCTIONS:	ONS:												т	
TAT Requested (cfrcks)	24 BR 4 DAY		48 HR 5 DAY		72 HR Orfwer		Rush	_1											• •							
SAMPLE	ESARE	HELD H	SAMPLES ARE HELD FOR 10 DAYS	8.5					H		İ	ļ		-			-				ĺ			i	_	_
BL Outure	ž	12-5-08				3	7		# <u>#</u>		RELLIQUISMED BY:		j		A	PARK				Series Series	epickine Symme	ä				
Bob Collinsin	<u>,</u> E	13.0 13.0	Ī	Tage of	To San	0	Obnen	7		Prince Nove:	3.55			-	٢	715%;		İ		Wite	Présed Pérse					
CUSCASE GENERAL				d Carlo	į (C)	3	χ.	}	2	Cantende										Cikiphu	Š					
													:				ĺ								1	_

Apex Laboratories